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July 1971 through June 1973**

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U.S.
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³ Located at Boulder, Colorado 80302.

⁴ Part of the Center for Building Technology.

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Bibliography on Atomic Transition Probabilities July 1971 through June 1973

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NATIONAL BUREAU OF STANDARDS, Richard W. Roberts, *Director*
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Foreword

The National Standard Reference Data System was established in 1963 for the purpose of promoting the critical evaluation and dissemination of numerical data of the physical sciences. The program is coordinated by the Office of Standard Reference Data of the National Bureau of Standards but involves the efforts of many groups in universities, government laboratories, and private industry. The primary aim of the program is to provide compilations of critically evaluated physical and chemical property data. These tables are published in the *Journal of Physical and Chemical Reference Data*, in the NSRDS-NBS series of the National Bureau of Standards, and through other appropriate channels.

The task of critical evaluation is carried out in various data centers, each with a well-defined technical scope. A necessary preliminary step to the critical evaluation process is the retrieval from the world scientific literature of all papers falling within the scope of the center. Each center, therefore, builds up a comprehensive well-indexed bibliographical file which forms the base for the evaluation task. Bibliographies derived from these files are published when they appear to be of value to research workers and others interested in the particular technical area.

Further information on NSRDS and the publications which form the primary output of the program may be obtained by writing to the Office of Standard Reference Data, National Bureau of Standards, Washington, DC 20234.

David R. Lide, Jr., Chief
Office of Standard Reference Data

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Bibliography on Atomic Transition Probabilities

July 1971 through June 1973

J. R. Fuhr and W. L. Wiese

This is the second supplement to the NBS Special Publication 320, "Bibliography on Atomic Transition Probabilities," and it covers the most recent literature on the subject from July 1971 through June 1973. The papers are arranged according to elements and stages of ionization, and the method employed and classification of transitions are indicated for each reference. Only articles on discrete transitions, both allowed and forbidden, are listed. Papers containing data for many elements within isoelectronic sequences are collected separately in front of the list in order to keep this bibliography to a reasonable size. Also included is a selected list of new papers dealing with the subject of atomic transition probabilities from a general point of view.

Key words: Allowed; atomic; discrete; forbidden; transition probability.

1. Introduction

Since the publication of our latest "Bibliography on Atomic Transition Probabilities (July 1969 through June 1971)" in September 1971, which is the first supplement to our earlier general bibliography,¹ the number of articles containing either numerical data or important reviews or comments of general interest has again increased sufficiently as to warrant a new supplement. This second supplement, containing about 300 references, includes all new papers (and a few older papers that were missed before) that were received in the NBS library before June 30, 1973. In this supplement, the format of the preceding bibliographies^{1,2} is retained.

Section 3.1 contains the important new papers dealing with the subject of atomic transition probabilities from a general point of view. However, we do not have new entries under all the subjects listed in the last bibliographies. We would like to note that this section contains only selected papers of special interest.

In Section 3.2 we have listed those papers containing data for many spectra (about 20 spectra or more) along isoelectronic sequences and which are therefore rather comprehensive in nature. In these cases we have indicated the transitions for which the numerical data are given, in addition to listing the spectra that have been treated.

In Section 3.3 we have listed, in alphabetical order of the element symbols, all new references containing data on individual spectra and have classified these papers according to the methods employed. The key to the abbreviations follows on the next page. We have marked with an asterisk the element symbols of those species for which additional material is available from the papers listed in Section 3.2.

As an additional piece of information, we have assembled on page vii all available data tables of critically evaluated transition probabilities and their sources.

It is a pleasure to acknowledge the competent assistance of Mrs. B. Specht and Ms. E. White-Frazer in arranging and typing this bibliography.

¹Miles, B.M., and Wiese, W.L., Bibliography on Atomic Transition Probabilities (January 1916 through June 1969), Nat. Bur. Stand. (U.S.), Spec. Publ. 320 (Feb. 1970).

²Fuhr, J. R., and Wiese, W. L., Bibliography on Atomic Transition Probabilities (July 1969 through June 1971), Nat. Bur. Stand. (U.S.), Spec. Publ. 320, Suppl. 1 (Sept. 1971).

Table of Abbreviations Used for Classification of the Articles

Except where "rel." (relative) appears, absolute values have been determined.

A. Theoretical methods:

1. SCF—self-consistent field calculations
2. CA—Coulomb approximation
3. quant.—other quantum mechanical calculations
4. quant. forb.—quantum mechanical calculations for forbidden lines
5. estim.—estimations from sum rules, etc.
6. interp.—interpolation within isoelectronic sequences, spectral series or homologous atoms.

B. Experimental methods:

1. emiss.—measurements in emission (arc, furnace, discharge tube, shock tube, etc.)
2. absorpt.—measurements in absorption (King furnace, absorption tube, etc.)
3. life—lifetime measurements (including Hanle-effect)
4. hook—anomalous dispersion measurements
5. misc.—miscellaneous experimental methods (for example, Stark effect, astrophysical measurements, etc.)

C. Miscellaneous:

1. comm.—comments, additions, or corrections to other articles, methods, etc.
2. incompl.—article not yet classified (because translation is needed, incomplete information available, etc.)
3. compil.—compilations

Material on forbidden lines is marked as "forb."

2. Available Numerical Tables of Critically Evaluated Transition Probabilities

1. For the elements hydrogen through neon:
Wiese, W.L., Smith, M.W., and Glennon, B. M., Atomic Transition Probabilities, Vol. I, Nat. Stand. Ref. Data Ser., Nat. Bur. Stand. (U.S.), 4, 157 pages (May 1966).
II, Nat. Bur. Stand. (U.S.), Tech. Note 474, 24 pages (Jan. 1969).
2. For the elements sodium through calcium:
Wiese, W. L., Smith, M.W., and Miles, B. M., Atomic Transition Probabilities, Vol. II, Nat. Stand. Ref. Data Ser., Nat. Bur. Stand. (U.S.), 22, 306 pages (Oct. 1969).
3. For Ba I and II:
Miles, B. M., and Wiese, W. L., Critically Evaluated Transition Probabilities for Ba I and
4. Selected updated material for elements hydrogen through calcium:
Wiese, W. L., and Miles, B.M., American Institute of Physics Handbook, ch. 7, 200-263, 3rd ed., (McGraw-Hill Book Co., Inc., New York, N.Y. 1972).
5. For forbidden lines of the iron group elements:
Smith, M. W., and Wiese, W. L., J. Phys. Chem. Ref. Data 2, 85 (1973).

3. BIBLIOGRAPHY

3.1 GENERAL REFERENCES

A. TABLES OF NUMERICAL VALUES

- Garstang, R. H., "Planetary Nebulae--International Astronomical Union Symposium No. 34," 143-152 (Ed. Osterbrock, D. E. & O'Dell, C. R., D. Reidel Publ. Co., Dordrecht, Holland, 1968) (Compilation of selected astrophysically important transition probabilities for forbidden lines).
- Smith, M. W. & Wiese, W. L., J. Phys. Chem. Ref. Data 2, 85 (1973) (A critical compilation of atomic transition probabilities for forbidden lines of the iron group elements).
- Wiese, W. L. & Miles, B. M., "American Institute of Physics Handbook," Ch. 7, 200-263, 3rd Edition (McGraw-Hill, New York, 1972).

* * * * *

B. PREVIOUS LITERATURE COMPILATIONS

- Fuhr, J. R. & Wiese, W. L., "Bibliography on Atomic Transition Probabilities (July 1969 through June 1971)," Nat. Bur. Stand. (U.S.), Spec. Publ. 320, Suppl. 1 (Sept. 1971).

* * * * *

C. REVIEW ARTICLES

- Kessler, K. G., Comments At. Mol. Phys. 2, 151 (1971) (Progress in the measurement of atomic transition probabilities).
- Nicolaides, C. & Sinanoglu, O., "New Directions in Atomic Physics," Vol. II: Experiment, Ch. 8, 139-157 (Ed. Condon, E. U. & Sinanoglu, O., Yale University Press, New Haven, Conn., 1972).
- Transactions of the International Astronomical Union, Vol. XIV B (1970), pp. 120-121.
- Wiese, W. L., "Physics of Ionized Gases 1972," 627-649 (Ed. Kurepa, M. V., Institute of Physics, Beograd, Yugoslavia, 1972) (Regularities in atomic oscillator strengths).

* * * * *

D. FUNDAMENTAL RELATIONSHIPS AND BASIC CONCEPTS

No new entries.

* * * * *

E. DETAILED DESCRIPTIONS OF EXPERIMENTAL OR THEORETICAL METHODS

Huber, M. C. E., "Modern Optical Methods in Gas Dynamic Research," 85-112 (Ed. Dosanjh, D. S., Plenum Press, New York, 1971) (Hook method).

Imhof, R. E. & Read, F. H., J. Phys. B 4, 450 (1971) (An electron-photon coincidence method to measure atomic lifetimes).

* * * * *

F. GENERAL COMMENTS

Berry, H. G., Curtis, L. J., & Subtil, J. L., J. Opt. Soc. Amer. 62, 771 (1972) (The treatment of cascading effects in beam-foil lifetime measurements).

Bonham, R. A., J. Chem. Phys. 56, 762 (1972) (Determination of optical oscillator strengths by electron impact spectroscopy).

Drake, G. W. F., Phys. Rev. A 5, 1979 (1972) (Relativistic corrections to radiative transition probabilities).

Feneuille, S., Physica (Utrecht) 53, 143 (1971) (Relativistic treatment of atomic transition probabilities).

Garstang, R. H., "Highlights of Astronomy," 555-560 (Ed. DeJager, C., D. Reidel, Dordrecht, Holland, 1971) (Comments on magnetic multipole transition probabilities).

Garstang, R. H., "Topics in Modern Physics--A Tribute to Edward U. Condon," 153-167 (Ed. Brittin, W. E. & Odabasi, H., Colorado Associated Univ. Press, Boulder, Colorado, 1971) (On relativistic transition probabilities).

Kay, L., Phys. Scr. 5, 138 (1972) (On influence of cascading effects on atomic lifetimes).

Valters, A. K., Opt. Spectrosc. (USSR) 29, 620 (1970) (The use of outer hooks to determine oscillator strengths by the anomalous dispersion method).

zu Putlitz, G., Comments At. Mol. Phys. 1, 51 (1969) (Concerning Fermi's paper on line strength anomalies).

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G. ENVIRONMENTAL INFLUENCES ON TRANSITION PROBABILITIES

No new entries.

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3.2 REFERENCES ON ISOELECTRONIC SEQUENCES

3.2.1 Allowed Lines

Brown, R. T. & Cortez, J.-L. M. Astrophys. J. 176, 267 (1972). quant.
Transitions treated:

Numerous lines in the $nd - n'f$ array (where $3 \leq n \leq 8$ and $4 \leq n' \leq 8$) for the He Sequence through S XV.

* * * * *

Drake, quoted in Dalgarno, A. "The Menzel Symposium on Solar Physics, Atomic Spectra, and
Gaseous Nebulae," 47-57, Nat. Bur. Stand. (U.S.), Spec.
Publ. 353 (Aug. 1971). quant.
Transitions treated:

The $1s^2 \ ^1S - 1s2p \ ^1P^o$ and $1s2s \ ^1S - 1s2p \ ^1P^o$ transitions of the He Sequence through Ar XVII.

* * * * *

Drake, G. W. F. Phys. Rev. A 5, 614 (1972). quant.
Transitions treated:

He Sequence:

$$\frac{3p^o}{3p}$$

$1snp - 2p3p$ ($n = 2, 3, 4$)

$$1s3d \ ^3D - 2p3d \ ^3D^o$$

$$2p^2 \ ^3P - 2p3d \ ^3D^o$$

$$2p3p \ ^3P - 2p3d \ ^3D^o$$

$$1s3d \ ^1D - 2p3d \ ^1D^o$$

$$2p3p \ ^1P - 2p3d \ ^1D^o$$

through Ar XVII.

* * * * *

Safronova, U. I., Ivanova, A. N.,
& Kharitonova, V. N.

Theor. Exp. Chem. (USSR) 5, 209 (1969).

quant.

Transitions treated:

$1s^2 2s^{n_1-1} 2p^{n_2} - 1s^2 2s^{n_1-1} 2p^{n_2+1}$ transitions where $n_1 = 1, 2$ and $n_2 = 0, 1, 2, 3, 4, 5$ for

Li Sequence ($n_1 = 1$; $n_2 = 0$)

Be Sequence ($n_1 = 1, 2$; $n_2 = 0, 1$)

B Sequence ($n_1 = 1, 2$; $n_2 = 1, 2$)

C Sequence ($n_1 = 1, 2$; $n_2 = 2, 3$)

N Sequence ($n_1 = 1, 2$; $n_2 = 3, 4$)

O Sequence ($n_1 = 1, 2$; $n_2 = 4, 5$)

F Sequence ($n_1 = 2$; $n_2 = 5$).

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Laughlin, C. & Dalgarno, A.

Phys. Lett. A 35, 61 (1971).

quant.

Transitions treated:

$2s2p^1 P^0 - 2p^2^1 D$ of the Be Sequence.

* * * * *

Gruzdev, P. F.

"Theory of Electronic Shells of Atoms and Molecules," Institute of Physics and Mathematics, Academy of Sciences of the Lithuanian SSR, 112-114 (Publishing House "Mintis," Vilnius, 1971).

quant.

Transitions treated:

$p^4 - p^3 s$ resonance transitions for

O Sequence through Cu XXII

S Sequence through Cu XIV

Se Sequence through Kr III

Te Sequence through Xe III.

* * * * *

Ali, M. A.

Int. J. Quantum Chem. 3S, 359 (1970).

quant.

Transitions treated:

$1s^2 2s^2 2p^4 (^3P) 3s^4 P - 1s^2 2s^2 2p^4 (^3P) 3p^4 D^0, ^4 P^0, ^4 S^0$
of the F Sequence.

* * * * *

Ali, M. A. J. Quant. Spectrosc. Radiat. Transfer 11, 503 (1971). quant.

Transitions treated:

All lines of the $2p^4 3p - 2p^4 3d$ array for the F Sequence.

* * * * *

Gruzdev, P. F. Opt. Spectrosc. (USSR) 30, 319 (1971). quant.

Transitions treated:

All lines of the $2p^5 - 2p^4 3s$ array for the F Sequence through Cu XXI.

* * * * *

Ali, M. A. J. Phys. B 4, 748 (1971). quant.

Transitions treated:

$4s^2 S - 4p^2 P^o$ and $4p^2 P^o - 4d^2 D$ of the Na Sequence.

* * * * *

Kharitonova, V. N. & Safronova, U. I. "Theory of Electronic Shells of Atoms and Molecules," Institute of Physics and Mathematics, Academy of Sciences of the Lithuanian SSR, 85-89 (Publishing House "Mintis," Vilnius, 1971). quant.

Transitions treated:

Numerous transitions within the $n = 3$ shell of the Na and Mg Sequences.

* * * * *

Laughlin, C., Lewis, M. N., & Horak, Z. J. J. Opt. Soc. Amer. 63, 736 (1973). quant.

Transitions treated:

$3d^2 D - 4p^2 P^o$ and $4p^2 P^o - 4d^2 D$ of the Na Sequence.

* * * * *

3.2.2 Forbidden Lines

Beigman, I. L. & Safronova, U. I. Sov. Phys.-JETP 33, 1102 (1971). quant. forb.

Transitions treated:

$1s^2S - 2s^2S$ transitions of the H Sequence; $1s^2^1S - 1s2s^3S$ and $1s2s^3S - 1s2s^1S$
transitions of the He Sequence.

* * * * *

Johnson, W. R. Phys. Rev. Lett. 29, 1123 (1972). quant. forb.

Transitions treated:

$1s^2S - 2s^2S$ two-photon (E1) transitions and magnetic dipole (M1) transitions of the H Sequence.

* * * * *

Kaplan, S. A. & Kleiman, E. B. Izv. Vyssh. Ucheb. Zaved., Radiofiz. 15, 305 (1972). quant. forb.

Transitions treated:

The $1s^2S - 2s^2S$ transition of the H Sequence.

* * * * *

Zon, B. A. & Rapoport, L. P. JETP Lett. 7, 52 (1968). quant.

Transitions treated:

The $1s^2S - 2s^2S$ transition of the H sequence.

* * * * *

Freeman, F. F., Gabriel, A. H.,
Jones, B. B., & Jordan, C. Phil. Trans. Roy. Soc. London, Ser. A 270, 127 (1971). quant. forb.

Transitions treated:

The $1s^2^1S - 1s2s^3S$ transition of the He Sequence.

* * * * *

3.3 REFERENCES ON INDIVIDUAL ELEMENTS AND STAGES OF IONIZATION

AUTHOR

JOURNAL

CLASSIFICATION

Ag (Silver)*

Ag I

Bucka, H., Einfeld, D., Ney, J., & Wilken, J.	"Third Conference on Atomic Spectroscopy," No. 21 (University of Reading, Reading, England, 1971).	life
Bucka, H., Einfeld, D., Ney, J., & Wilken, J.	Z. Naturforsch. A <u>26</u> , 1016 (1971).	life
Mølhave, L. & Sørensen, G.	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	life
Moe, G. W. & McDermott, M. N.	Bull. Amer. Phys. Soc., Ser. II <u>17</u> , 150 (1972).	life
Pichler, G.	Fizika <u>4</u> , 179 (1972).	CA

Ag II

Mølhave, L. & Sørensen, G.	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	life
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Al (Aluminum)*

Al I

Smith, W. H. & Liszt, H. S.	J. Opt. Soc. Amer. <u>61</u> , 938 (1971).	life
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Al II

Andersen, T., Roberts, J. R., & Sørensen, G.	Phys. Scr. <u>4</u> , 52 (1971).	life
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Al III

Ali, M. A.	J. Quant. Spectrosc. Radiat. Transfer <u>11</u> , 1611 (1971).	quant. forb.
Davis, J. & Morin, S.	J. Quant. Spectrosc. Radiat. Transfer <u>11</u> , 495 (1971).	CA
Kunze, H. J. & Datla, R. U.	Astrophys. J. <u>169</u> , 425 (1971).	CA
Tull, C. E., Jackson, M., McEachran, R. P., & Cohen, M.	Can. J. Phys. <u>50</u> , 1169 (1972).	quant. forb.
McEachran, R. P. & Cohen, M.	J. Quant. Spectrosc. Radiat. Transfer <u>13</u> , 197 (1973).	comm. forb.

*See also Section 3.2 for some further references.

Al IX

Shaney, L. J. J. Opt. Soc. Amer. 61, 942 (1971). quant.

Al XI

Zapol', B. P., Runin, P. E.,
Lyubimov, A. V., Taksar,
I. M., & Fabrikant, I. I. Izv. Akad. Nauk. Latv. SSR, Ser. Fiz. Tekh. Nauk No. 6,
14 (1971). quant.

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Ar (Argon)*

Ar I

Chenevier, M. & Goullet, G.	J. Phys. (Paris), Colloq. C1 <u>30</u> , 84 (1969).	life
Lewis, E. L. & Stacey, D. N.	"Optical Pumping and Atomic Line Shape," 123-129 (Ed. Skalinski, T., Panstwowe Wydawnictwo Naukowe, Warsaw, 1969).	misc.
Cowan, R. D.	J. Phys. (Paris), Colloq. <u>31</u> , C4-191 (1970).	quant.
Evans, D. L., Marchand, J. M., Braun, W. G., & Oss, J. P.	AIAA 8th Aerospace Sciences Meeting, New York, 1970, Paper No. 70-42.	emiss.
Chen, C. J.	J. Opt. Soc. Amer. <u>61</u> , 1267 (1971).	quant.
Grandin, J. P.	"Third Conference on Atomic Spectroscopy," No. 43 (University of Reading, Reading, England, 1971).	life
Houwelingen, D. van & Kruithof, A. A.	J. Quant. Spectrosc. Radiat. Transfer <u>11</u> , 1235 (1971).	emiss.
Stedman, D. H. & Setser, D. W.	"Progress in Reaction Kinetics," Vol. 6, Part 4, 193-238 (Ed. Jennings, K. R. & Cundall, R. B., Pergamon Press, New York, 1971).	quant. forb.
Stokes, A. D.	J. Phys. D <u>4</u> , 930 (1971).	emiss.
Aymar, M.	Physica (Utrecht) <u>57</u> , 178 (1972).	quant.
Malakhov, Yu. I. & Potyomkin, V. G.	Opt. Spectrosc. (USSR) <u>32</u> , 129 (1972).	life
Pichler, G. & Vujnovic, V.	Phys. Lett. A <u>40</u> , 397 (1972).	emiss.
Shumaker, J. B. & Popenoe, C. H.	Bull. Amer. Phys. Soc., Ser. II <u>17</u> , 384 (1972).	emiss.
Van Dyck, R. S., Jr., Johnson, C. E., & Shugart, H. A.	Phys. Rev. A <u>5</u> , 991 (1972).	life, forb.
Yamashita, I.	J. Phys. Soc. Jap. <u>32</u> , 1447 (1972).	absorpt., rel.
Galy, J., Brunet, H., Birot, A., & Artique, J.-L.	C. R. H. Acad. Sci., Ser. B <u>276</u> , 23 (1973).	life
Larcher, G., Maillot, P., & Thenard, C.	C. R. H. Acad. Sci., Ser. B <u>276</u> , 463 (1973).	comm.

Ar II

Lawrence, G. M. & Savage, B. D.	Astrophys. J. <u>146</u> , 940 (1966).	life
	"Excitation Electronique D'Une Vapeur Atomique-Application a la Spectroscopie," No. 162, 239-245 (Centre National de la Recherche Scientifique, Paris, 1967).	
Kitaeva, V. F., Osipov, Yu. I., Rubin, P. L., & Sobolev, N. N.	IEEE J. Quant. Electron. <u>QE-5</u> , 72 (1969).	quant.

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Evans, D. L., Marchand, J. M., Braun, W. G., & Oss, J. P.	AIAA 8th Aerospace Sciences Meeting, New York, 1970, Paper No. 70-42.	emiss.
Arrathoon, R. & Sealer, D. A.	Phys. Rev. A <u>4</u> , 815 (1971).	life
Church, D. A., Druetta, M., & Liu, C. H.	Phys. Rev. Lett. <u>27</u> , 1763 (1971).	life
Garstang, R. H. & Odabasi, H.	"Topics in Modern Physics-- A Tribute to Edward U. Condon," 261-286 (Ed. Brittin, W. E. & Odabasi, H., Colorado Associated Univ. Press, Boulder, Colorado, 1971).	quant.
Houwelingen, D. van & Kruithof, A. A.	J. Quant. Spectrosc. Radiat. Transfer <u>11</u> , 1235 (1971).	emiss.
Ishii, K.	Sci. Light (Tokyo) <u>20</u> , 66 (1971).	quant.
Pinnington, E. H.	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	life
Andersen, T., Madsen, O. H., & Sørensen, G.	Phys. Scr. <u>6</u> , 125 (1972).	life
Livingston, A. E., Irwin, D. J. G., & Pinnington, E. H.	J. Opt. Soc. Amer. <u>62</u> , 1303 (1972).	life
Luyken, B. F. J.	Physica (Utrecht) <u>60</u> , 432 (1972).	quant.
Luyken, B. F. J., De Heer, F. J., Baas, R. Ch., & Tawara, H.	Physica (Utrecht) <u>62</u> , 249 (1972).	emiss., rel.
Malakhov, Yu. I. & Potyomkin, V. G.	Opt. Spectrosc. (USSR) <u>32</u> , 129 (1972).	life
Shumaker, J. B. & Popenoe, C. H.	Bull. Amer. Phys. Soc., Ser. II <u>17</u> , 384 (1972).	emiss.
Sijde, B. van der	J. Quant. Spectrosc. Radiat. Transfer <u>12</u> , 703 (1972).	compil.
Sze, R. C., Antropov, E. T., & Bennett, W. R., Jr.	Appl. Opt. <u>11</u> , 197 (1972).	life
Tidwell, E. D.	J. Quant. Spectrosc. Radiat. Transfer <u>12</u> , 431 (1972).	emiss.
Liu, C. H., Gardiner, R. B., & Church, D. A.	Phys. Lett. A <u>43</u> , 165 (1973).	life
Sijde, B. van der & Tidwell, E. D.	J. Quant. Spectrosc. Radiat. Transfer <u>13</u> , 289 (1973).	comm.

Ar III

Church, D. A., Druetta, M., & Liu, C. H.	Phys. Rev. Lett. <u>27</u> , 1763 (1971).	life
Irwin, D. G. J., Kernahan, J. A., Lin, C. C., Livingston, A. E., & Pinnington, E. H.	"Third Conference on Atomic Spectroscopy," No. 49 (University of Reading, Reading, England, 1971).	life
Pinnington, E. H.	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	life
Pinnington, E. H., Curnutte, B., & Dufay, M.	J. Opt. Soc. Amer. <u>61</u> , 978 (1971).	life
Livingston, A. E., Irwin, D. J. G., & Pinnington,	J. Opt. Soc. Amer. <u>62</u> , 1303 (1972).	life

Ar IV

Irwin, D. G. J., Kernahan, J. A., Lin, C. C., Livingston, A. E., & Pinnington, E. H.	"Third Conference on Atomic Spectroscopy," No. 49 (University of Reading, Reading, England, 1971).	life
Pinnington, E. H.	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	life
Pinnington, E. H., Curnutte, B., & Dufay, M.	J. Opt. Soc. Amer. <u>61</u> , 978 (1971).	life

Livingston, A. E., Irwin, D. J. G., & Pinnington, E. H.	J. Opt. Soc. Amer. <u>62</u> , 1303 (1972).	life
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Ar V

Irwin, D. G. J., Kernahan, J. A., Lin, C. C., Livingston, A. E., & Pinnington, E. H.	"Third Conference on Atomic Spectroscopy," No. 49 (University of Reading, Reading, England, 1971).	life
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Pinnington, E. H.	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	life
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Pinnington, E. H., Curnutte, B., & Dufay, M.	J. Opt. Soc. Amer. <u>61</u> , 978 (1971).	life
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Livingston, A. E., Irwin, D. J. G., & Pinnington, E. H.	J. Opt. Soc. Amer. <u>62</u> , 1303 (1972).	life
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Ar VI

Pinnington, E. H.	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	life
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Livingston, A. E., Irwin, D. J. G., & Pinnington, E. H.	J. Opt. Soc. Amer. <u>62</u> , 1303 (1972).	life
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Ar VII

Livingston, A. E., Irwin, D. J. G., & Pinnington, E. H.	J. Opt. Soc. Amer. <u>62</u> , 1303 (1972).	life
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Ar VIII

Kunze, H. J. & Datla, R. U.	Astrophys. J. <u>169</u> , 425 (1971).	CA, emiss.
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Zapol', B. P., Kurin, P. E., Lyubimov, A. V., Taksar, I. M., & Fabrikant, I. I.	Izv. Akad. Nauk. Latv. SSR, Ser. Fiz. Tekh. Nauk No. 6, 14 (1971).	quant.
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Datla, R. U., Kunze, H. J., & Petrini, D.	Phys. Rev. A <u>6</u> , 38 (1972).	quant.
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Druetta, M., Datla, R. U., & Kunze, H. J.	Astrophys. J. <u>174</u> , 215 (1972).	quant.
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Livingston, A. E., Irwin, D. J. G., & Pinnington, E. H.	J. Opt. Soc. Amer. <u>62</u> , 1303 (1972).	life
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Ar IX

Crance, M.	At. Data <u>5</u> , 185 (1973).	quant.
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Ar XIV

Shamey, L. J.	J. Opt. Soc. Amer. <u>61</u> , 942 (1971).	quant.
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Ar XVI

Sellin, I. A., Pegg, D. J., Griffin, P. M., & Smith, W. W.	Phys. Rev. Lett. <u>28</u> , 1229 (1972).	life
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Ar XVII

Schmieder, R. W. & Marrus, R.	J. Opt. Soc. Amer. <u>61</u> , 1129 (1971).	life
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Feneuille, S. & Koenig, E.	C. R. H. Acad. Sci., Ser. B <u>274</u> , 46 (1972).	quant. forb.
Marrus, R. & Schmieder, R. W.	Phys. Rev. A <u>5</u> , 1160 (1972).	life, forb.

Ar XVIII

Marrus, R. & Schmieder, R. W.	Phys. Rev. A <u>5</u> , 1160 (1972).	life, forb.
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As (Arsenic)*

As IV

Sørensen, G.	Phys. Rev. A <u>7</u> , 85 (1973).	life
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As V

Sørensen, G.	Phys. Rev. A <u>7</u> , 85 (1973).	life
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Au (Gold)*

Au I

Bucka, H., Einfeld, D., Ney, J., & Wilken, J.	Z. Phys. <u>194</u> , 208 (1966).	life
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"Premiere Reunion de l'Association Europeene de Spectroscopie Atomique," No. 11 (Faculte des Sciences, Paris, Orsay, 1969).

Einfeld, D., Ney, J., & Wilken, J.	Z. Naturforsch. A <u>26</u> , 668 (1971).	life
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B (Boron)*

B I

Lawrence, G. M. & Savage, B. D.	Phys. Rev. <u>141</u> , 67 (1966).	life
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"Excitation Electronique D'Une Vapeur Atomique-Application a la Spectroscopie," No. 162, 239-245 (Centre National de la Recherche Scientifique, Paris, 1967).

Bromander, J.	Phys. Scr. <u>4</u> , 61 (1971).	life
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*See also Section 3.2 for some further references.

McEachran, R. P. & Cohen, M.	J. Quant. Spectrosc. Radiat. Transfer <u>11</u> , 1819 (1971).	SCF
Smith, W. H. & Liszt, H. S.	J. Opt. Soc. Amer. <u>61</u> , 938 (1971).	life
Sibinic, Z.	Phys. Rev. A <u>5</u> , 1150 (1972).	quant.

B II

Lawrence, G. M. & Savage, B. D.	Phys. Rev. <u>141</u> , 67 (1966).	life
	"Excitation Electronique D'Une Vapeur Atomique-Application a la Spectroscopie," No. 162, 239-245 (Centre National de la Recherche Scientifique, Paris, 1967).	
Nicolaides, C. & Sinanoglu, O.	J. Phys. (Paris) Colloq. C4, Suppl. 11-12, <u>31</u> , C4-117 (1970).	quant.
Bromander, J.	Phys. Scr. <u>4</u> , 61 (1971).	life
Burke, P. G., Hibbert, A., & Robb, W. D.	J. Phys. B <u>5</u> , 37 (1972).	quant.
Nicolaides, C. A., Beck, D. R., & Sinanoglu, O.	J. Phys. B <u>6</u> , 62 (1973).	quant.

B III

Bromander, J.	Phys. Scr. <u>4</u> , 61 (1971).	life
Zapol', B. P., Kurin, P. E., Lyubimov, A. V., Taksar, I. M., & Fabrikant, I. I.	Izv. Akad. Nauk. Latv. SSR, Ser. Fiz. Tekh. Nauk No. 6, 14 (1971).	quant.
Moitra, R. K. & Mukherjee, P. K.	Int. J. Quantum Chem. <u>6</u> , 211 (1972).	SCF
Buchet, J. P. & Buchet-Poulizac, M. C.	J. Opt. Soc. Amer. <u>63</u> , 243 (1973).	life

B IV

Drake, G. W. F. & Dalgarno, A.	Astrophys. J. <u>157</u> , 459 (1969).	quant.
Schiff, B., Pekeris, C. L., & Accad, Y.	Phys. Rev. A <u>4</u> , 885 (1971).	quant.
Cohen, M. & McEachran, R. P.	Can. J. Phys. <u>50</u> , 1363 (1972).	SCF
Cohen, M. & McEachran, R. P.	Chem. Phys. Lett. <u>14</u> , 201 (1972).	SCF
Jacobs, V. L.	J. Phys. B <u>5</u> , 213 (1972).	quant. forb.
Buchet, J. P. & Buchet-Poulizac, M. C.	J. Opt. Soc. Amer. <u>63</u> , 243 (1973).	life

B V

Buchet, J. P. & Buchet-Poulizac, M. C.	J. Opt. Soc. Amer. <u>63</u> , 243 (1973).	life
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Ba (Barium)*

Ba I

Chenevier, M. & Goullet, G.	J. Phys. (Paris), Colloq. C1 <u>30</u> , 84 (1969).	life
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*See also Section 3.2 for some further references.

Lidb, G., Ma, I. J., & zu Putnitz, G.	"Premiere Reunion de l'Association Europeene de Spectroscopie Atomique," No. 34 (Faculte des Sciences, Paris-Orsay, 1969).	life
Dickie, L. O. & Kelly, F. M.	Can. J. Phys. <u>49</u> , 2630 (1971).	life
Schaefer, A. R.	J. Quant. Spectrosc. Radiat. Transfer <u>11</u> , 499 (1971).	life
Hameed, S.	J. Phys. B <u>5</u> , 746 (1972).	quant.
Kim, Y.-K. & Bagus, P. S.	J. Phys. B <u>5</u> , L193 (1972).	quant.
L'vov, B. V.	J. Quant. Spectrosc. Radiat. Transfer <u>12</u> , 651 (1972).	absorpt.
	Method. Phys. Anal. <u>8</u> , 3 (1972).	

Ba II

Bucka, H.	Z. Naturforsch. <u>21a</u> , 654 (1966).	life
	"Excitation Electronique D'Une Vapeur Atomique-Application a la Spectroscopie," No. 162, 131-137 (Centre National de la Recherche Scientifique, Paris, 1967).	
Chenevier, M. & Goullet, G.	J. Phys. (Paris), Colloq. C1 <u>30</u> , 84 (1969).	life
Schaefer, A. R.	J. Quant. Spectrosc. Radiat. Transfer <u>11</u> , 499 (1971).	life

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Be (Beryllium)*

Be I

Kelly, H. P.	Phys. Rev. <u>136</u> , B896 (1964).	SCF
Nicolaidis, C. & Sinanoglu, O.	J. Phys. (Paris) Colloq. C4, Suppl. 11-12, <u>31</u> , C4-117 (1970).	quant.
Andersen, T., Roberts, J. R., & Sørensen, G.	Phys. Scr. <u>4</u> , 52 (1971).	life
Berry, H. G., Bromander, J., Martinson, I., & Buchta, R.	Phys. Scr. <u>3</u> , 63 (1971).	life
Bromander, J.	Phys. Scr. <u>4</u> , 61 (1971).	life
Kelly, H. P.	"The Menzel Symposium on Solar Physics, Atomic Spectra, and Gaseous Nebulae," 37-46, Nat. Bur. Stand. (U.S.), Spec. Publ. 353 (Aug. 1971).	SCF
Burke, P. G., Hibbert, A., & Robb, W. D.	J. Phys. B <u>5</u> , 37 (1972).	quant.
Hameed, S.	J. Phys. B <u>5</u> , 746 (1972).	quant.
Hontzeas, S., Martinson, I., Erman, P., & Buchta, R.	Phys. Scr. <u>6</u> , 55 (1972).	life
L'vov, B. V.	J. Quant. Spectrosc. Radiat. Transfer <u>12</u> , 651 (1972).	absorpt.
Weiss, A. W.	Phys. Rev. A <u>6</u> , 1261 (1972).	quant.
Hibbert, A.	J. Phys. B <u>6</u> , L127 (1973).	quant.
Nicolaidis, C. A., Beck, D. R., & Sinanoglu, O.	J. Phys. B <u>6</u> , 62 (1973).	quant.

Be II

Berry, H. G., Bromander, J., Martinson, I., & Buchta, R.	Phys. Scr. <u>3</u> , 63 (1971).	life
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*See also Section 3.2 for some further references.

Bromander, J.	Phys. Scr. <u>4</u> , 61 (1971).	life
Zapol', B. P., Kurin, P. E., Lyubimov, A. V., Taksar, I. M., & Fabrikant, I. I.	Izv. Akad. Nauk. Latv. SSR, Ser. Fiz. Tekh. Nauk No. 6, 14 (1971).	quant.
Hontzeas, S., Martinson, I., Erman, P., & Buchta, R.	Phys. Scr. <u>6</u> , 55 (1972).	life
Moitra, R. K. & Mukherjee, P. K.	Int. J. Quantum Chem. <u>6</u> , 211 (1972).	SCF

Be III

Kantseryavichyus, A.	Litov. Fiz. Sb. <u>6</u> , 215 (1966).	quant.
Drake, G. W. F. & Dalgarno, A.	Astrophys. J. <u>157</u> , 459 (1969).	quant.
Schiff, B., Pekeris, C. L., & Accad, Y.	Phys. Rev. A <u>4</u> , 885 (1971).	quant.
Cohen, M. & McEachran, R. P.	Can. J. Phys. <u>50</u> , 1363 (1972).	SCF
Cohen, M. & McEachran, R. P.	Chem. Phys. Lett. <u>14</u> , 201 (1972).	SCF
Jacobs, V. L.	J. Phys. B <u>5</u> , 213 (1972).	quant. forb.

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Bi (Bismuth)*

Bi I

Andersen, T., Madsen, O. H., & Sørensen, G.	J. Opt. Soc. Amer. <u>62</u> , 1118 (1972).	life
Svanberg, S.	Phys. Scr. <u>5</u> , 73 (1972).	life

Bi IV

Andersen, T., Kirkegaard Nielsen, A., & Sørensen, G.	Phys. Scr. <u>6</u> , 122 (1972).	life
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Bi V

Andersen, T., Kirkegaard Nielsen, A., & Sørensen, G.	Phys. Scr. <u>6</u> , 122 (1972).	life
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Br (Bromine)*

Br VI

Sørensen, G.	Phys. Rev. A <u>7</u> , 85 (1973).	interp.
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*See also Section 3.2 for some further references.

Sørensen, G.

Phys. Rev. A 7, 85 (1973).

interp.

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C (Carbon)*

C I

Lawrence, G. M. & Savage, B. D.

Phys. Rev. 141, 67 (1966).

life

"Excitation Electronique D'Une Vapeur Atomique--Application a la Spectroscopie," No. 162, 239-245 (Centre National de la Recherche Scientifique, Paris, 1967).

Nicolaidis, C. & Sinanoglu, O.

J. Phys. (Paris) Colloq. C4, Suppl. 11-12, 31, C4-117 (1970).

quant.

Bromander, J.

Phys. Scr. 4, 61 (1971).

life

Nicolaidis, C., Sinanoglu, O., & Westhaus, P.

Phys. Rev. A 4, 1400 (1971).

quant. forb.

Pegg, D. J., Chupp, E. L., & Dotchin, L. W.

Nucl. Instrum. Methods 92, 527 (1971).

life

Poulizac, M. C., Druetta, M., & Ceyzeriat, P.

J. Quant. Spectrosc. Radiat. Transfer 11, 1087 (1971).

life

Sinanoglu, O.

"Topics in Modern Physics--A Tribute to Edward U. Condon," 287-295 (Ed. Brittin, W. E. & Odabasi, H., Colorado Associated Univ. Press, Boulder, Colorado, 1971).

quant.

Mallow, J. V. & Burns, J.

J. Quant. Spectrosc. Radiat. Transfer 12, 1081 (1972).

life

Nicolaidis, C. A.

Chem. Phys. Lett. 17, 436 (1972).

quant.

C II

Lawrence, G. M. & Savage, B. D.

Phys. Rev. 141, 67 (1966).

life

"Excitation Electronique D'Une Vapeur Atomique--Application a la Spectroscopie," No. 162, 239-245 (Centre National de la Recherche Scientifique, Paris, 1967).

Sinanoglu, O.

Comments At. Mol. Phys. 2, 73 (1970).

quant.

Bromander, J.

Phys. Scr. 4, 61 (1971).

life

McEachran, R. P. & Cohen, M.

J. Quant. Spectrosc. Radiat. Transfer 11, 1819 (1971).

SCF

Pegg, D. J., Chupp, E. L., & Dotchin, L. W.

Nucl. Instrum. Methods 92, 527 (1971).

life

Poulizac, M. C. & Buchet, J. P.

Phys. Scr. 4, 191 (1971).

life

Poulizac, M. C., Druetta, M., & Ceyzeriat, P.

J. Quant. Spectrosc. Radiat. Transfer 11, 1087 (1971).

life

Sinanoglu, O.

"Theory of Electronic Shells of Atoms and Molecules," Institute of Physics and Mathematics, Academy of Sciences of the Lithuanian SSR, 31-44 (Publishing House "Mintis," Vilnius, 1971).

quant.

Mallow, J. V. & Burns, J.

J. Quant. Spectrosc. Radiat. Transfer 12, 1081 (1972).

life

C III

Elssner, W. & Nussbaumer, H.

"Premiere Reunion de l'Association Europeene de Spectroscopie Atomique," No. 42 (Faculte des Sciences, Paris-Orsay, 1969).

quant.

*See also Section 3.2 for some further references.

Nicolaides, C. & Sinanoglu, O.	J. Phys. (Paris) Colloq. C4, Suppl. 11-12, <u>31</u> , C4-117 (1970).	quant.
Bromander, J.	Phys. Scr. <u>4</u> , 61 (1971).	life
Feklistova, T.	Izv. Akad. Nauk Eston. SSR, Fiz. Mat. <u>20</u> , 289 (1971).	quant.
Nussbaumer, H.	Astrophys. J. <u>170</u> , 93 (1971).	quant.
Poulizac, M. C. & Buchet, J. P.	Phys. Scr. <u>4</u> , 191 (1971).	life
Poulizac, M. C., Druetta, M., & Ceyzeriat, P.	J. Quant. Spectrosc. Radiat. Transfer <u>11</u> , 1087 (1971).	life
Burke, P. G., Hibbert, A., & Robb, W. D.	J. Phys. B <u>5</u> , 37 (1972).	quant.
Nussbaumer, H.	Astron. Astrophys. <u>16</u> , 77 (1972).	quant.
Nussbaumer, H.	J. Phys. B <u>5</u> , 1837 (1972).	quant.
Nicolaides, C. A., Beck, D. R., & Sinanoglu, O.	J. Phys. B <u>6</u> , 62 (1973).	quant.

C IV

Poulizac, M. C. & Buchet, J. P.	Phys. Scr. <u>4</u> , 191 (1971).	life
Poulizac, M. C., Druetta, M., & Ceyzeriat, P.	J. Quant. Spectrosc. Radiat. Transfer <u>11</u> , 1087 (1971).	life
Zapol', B. P., Kunin, P. E., Lyubimov, A. V., Taksar, I. M., & Fabrikant, I. I.	Izv. Akad. Nauk. Latv. SSR, Ser. Fiz. Tekh. Nauk No. 6, 14 (1971).	quant.
Leibowitz, E. M.	J. Quant. Spectrosc. Radiat. Transfer <u>12</u> , 299 (1972).	quant.
Berry, H. G., Buchet-Poulizac, M. C., & Buchet, J. P.	J. Opt. Soc. Amer. <u>63</u> , 240 (1973).	life

C V

Drake, G. W. F. & Dalgarno, A.	Astrophys. J. <u>157</u> , 459 (1969).	quant.
Poulizac, M. C. & Buchet, J. P.	Phys. Scr. <u>4</u> , 191 (1971).	life
Poulizac, M. C., Druetta, M., & Ceyzeriat, P.	J. Quant. Spectrosc. Radiat. Transfer <u>11</u> , 1087 (1971).	life
Schiff, B., Pekeris, C. L., & Accad, Y.	Phys. Rev. A <u>4</u> , 885 (1971).	quant.
Cohen, M. & McEachran, R. P.	Can. J. Phys. <u>50</u> , 1363 (1972).	SCF
Cohen, M. & McEachran, R. P.	Chem. Phys. Lett. <u>14</u> , 201 (1972).	SCF
Jacobs, V. L.	J. Phys. B <u>5</u> , 213 (1972).	quant. forb.

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Ca (Calcium)*

Ca I

Smith, W. H. & Liszt, H. S.	J. Opt. Soc. Amer. <u>61</u> , 938 (1971).	life
Hameed, S.	J. Phys. B <u>5</u> , 746 (1972).	quant.
Kim, Y.-K. & Bagus, P. S.	J. Phys. B <u>5</u> , L193 (1972).	quant.

*See also Section 3.2 for some further references.

L'vov, B. V.	J. Quant. Spectrosc. Radiat. Transfer <u>12</u> , 651 (1972). Method. Phys. Anal. <u>8</u> , 3 (1972).	absorpt.
Fischer, C. F.	J. Quant. Spectrosc. Radiat. Transfer <u>13</u> , 201 (1973).	quant., SCF
Ca II		
Ali, M. A.	J. Quant. Spectrosc. Radiat. Transfer <u>11</u> , 1611 (1971).	quant. forb.
Smith, W. H. & Liszt, H. S.	J. Opt. Soc. Amer. <u>61</u> , 938 (1971).	life
Zapol', B. P., Kunin, P. E., Lyubimov, A. V., Taksar, I. M., & Fabrikant, I. I.	Izv. Akad. Nauk. Latv. SSR, Ser. Fiz. Tekh. Nauk No. 6, 14 (1971).	quant.
Black, J. H., Weisheit, J. C., & Lariana, E.	Astrophys. J. <u>177</u> , 567 (1972).	quant.
Yukov, E. A.	Sov. Astron. - AJ <u>15</u> , 867 (1972).	quant.
Tully, J. A., Petrini, D., & Bely, O.	Astron. Astrophys. <u>23</u> , 15 (1973).	quant.
Ca III		
Cowan, R. D.	J. Phys. (Paris), Colloq. <u>31</u> , C4-191 (1970).	quant.
Ca X		
Kunze, H. J. & Datla, R. U.	Astrophys. J. <u>169</u> , 425 (1971).	CA
Ca XI		
Crance, M.	At. Data <u>5</u> , 185 (1973).	quant.
Ca XIV		
Ivanov, L. N., Ivanova, E. P., & Tolmachev, V. V.	Sov. Phys. J. <u>12</u> , 1578 (1969).	quant.
Ivanov, L. N., Ivanova, E. P., & Tolmachev, V. V.	"Theory of Electronic Shells of Atoms and Molecules," Institute of Physics and Mathematics, Academy of Sciences of the Lithuanian SSR, 90-94 (Publishing House "Mintis," Vilnius, 1971).	quant.
Ca XVII		
Nussbaumer, H.	Astron. Astrophys. <u>16</u> , 77 (1972).	quant.

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Cd (Cadmium)*

Cd I		
Soleillet, P. & Floquin, J.	C. R. H. Acad. Sci. <u>217</u> , 368 (1943).	life
Spitzer, M.	Ann. Phys. (Paris) <u>5</u> , 707 (1960).	life
Berkowitz, J. & Lifshitz, C.	J. Phys. B <u>1</u> , 438 (1968).	misc.
Hanle, W., Pepperl, R., & Reuscher, H.	"Physics of the One- and Two-Electron Atoms," 375-379 (Ed. Epp, F. & Kleinpoppen, H., North-Holland Publishing Co., Amsterdam, 1969).	life

*See also Section 3.2 for some further references.

Pepperl, R.	Z. Naturforsch. A <u>25</u> , 927 (1970).	life
Zilitis, V. A.	Opt. Spectrosc. (USSR) <u>31</u> , 86 (1971).	quant., SCF
Andersen, T., Mølhave, L., & Sørensen, G.	Astrophys. J. <u>178</u> , 577 (1972).	life
L'vov, B. V.	J. Quant. Spectrosc. Radiat. Transfer <u>12</u> , 651 (1972).	absorpt.
	Method. Phys. Anal. <u>8</u> , 3 (1972).	
Andersen, T. & Sørensen, G.	J. Quant. Spectrosc. Radiat. Transfer <u>13</u> , 369 (1973).	life

Cd II

Hyman, H. A.	Chem. Phys. Lett. <u>10</u> , 242 (1971).	quant.
Andersen, T. & Sørensen, G.	J. Quant. Spectrosc. Radiat. Transfer <u>13</u> , 369 (1973).	life

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Cl (Chlorine)*

Cl II

Bashkin, S. & Martinson, I.	J. Opt. Soc. Amer. <u>61</u> , 1686 (1971).	life
Martinson, I.	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	life

Cl III

Bashkin, S. & Martinson, I.	J. Opt. Soc. Amer. <u>61</u> , 1686 (1971).	life
Martinson, I.	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	life
Beck, D. R. & Sinanoglu, O.	Phys. Rev. Lett. <u>28</u> , 945 (1972).	quant.

Cl IV

Bashkin, S. & Martinson, I.	J. Opt. Soc. Amer. <u>61</u> , 1686 (1971).	life
Martinson, I.	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	life

Cl V

Bashkin, S. & Martinson, I.	J. Opt. Soc. Amer. <u>61</u> , 1686 (1971).	life
Martinson, I.	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	life

Cl VI

Bashkin, S. & Martinson, I.	J. Opt. Soc. Amer. <u>61</u> , 1686 (1971).	life
Martinson, I.	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	life

Cl VII

Bashkin, S. & Martinson, I.	J. Opt. Soc. Amer. <u>61</u> , 1686 (1971).	life
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*See also Section 3.2 for some further references.

Kunze, H. J. & Datla, R. U.	Astrophys. J. <u>169</u> , 425 (1971).	CA
Martinson, I.	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	life
Pegg, D. J., Sellin, I. A., Griffin, P. M., & Smith, W. W.	Phys. Rev. Lett. <u>28</u> , 1615 (1972).	life

Cl VIII

Crance, M.	At. Data <u>5</u> , 185 (1973).	quant.
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Cl XV

Sellin, I. A., Pegg, D. J., Griffin, P. M., & Smith, W. W.	Phys. Rev. Lett. <u>28</u> , 1229 (1972).	life
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Co (Cobalt)*

Co VIII

Warner, B. & Kirkpatrick, R. C.	Mon. Notic. Roy. Astron. Soc. <u>144</u> , 397 (1969).	quant., quant. forb.
	Publications of the Department of Astronomy, University of Texas at Austin, Vol. III, No. 2 (1969).	

Co XVII

Tull, C. E., McEachran, R. P., & Cohen, M.	At. Data <u>3</u> , 169 (1971).	SCF
Tull, C. E., Jackson, M., McEachran, R. P., & Cohen, M.	J. Quant. Spectrosc. Radiat. Transfer <u>12</u> , 893 (1972).	quant. forb.

Co XVIII

Crance, M.	At. Data <u>5</u> , 185 (1973).	quant.
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Co XX

Gruzdev, P. F.	Zh. Prikl. Spektrosk. <u>14</u> , 1100 (1971).	quant.
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Cr (Chromium)*

Cr I

Cooke, C. L., Curnutte, B., & Brand, J. H.	Astron. Astrophys. <u>15</u> , 299 (1971).	life
Fischer, C. F.	J. Quant. Spectrosc. Radiat. Transfer <u>13</u> , 201 (1973).	quant., SCF

*See also Section 3.2 for some further references.

Cr II

Kuzmitskite, L. L. & Ushpalis, K. K.	Litov. Fiz. Sb. <u>10</u> , 201 (1970).	quant.
Kuzmitskite, L. L., Ushpalis, K. K., & Dembauskaitė, A. V.	Litov. Fiz. Sb. <u>10</u> , 213 (1970).	quant.
Kuzmitskite, L. L., & Ushpalis, K. K.	"Theory of Electronic Shells of Atoms and Molecules," Institute of Physics and Mathematics, Academy of Sciences of the Lithuanian SSR, 144-147, (Publishing House "Mintis," Vilnius, 1971).	quant.

Cr V

Warner, B. & Kirkpatrick, R. C.	Mon. Notic. Roy. Astron. Soc. <u>144</u> , 397 (1969).	quant., quant. forb.
	Publications of the Department of Astronomy, University of Texas at Austin, Vol. III, No. 2 (1969).	

Cr VII

Cowan, R. D.	J. Phys. (Paris), Colloq. <u>31</u> , C4-191 (1970).	quant.
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Cr XV

Crance, M.	At. Data <u>5</u> , 185 (1973).	quant.
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Cs (Cesium)*

Cs I

Kantseryavichyus, A. Yu. & Zhilionite, S. V.	Litov. Fiz. Sb. <u>7</u> , 73 (1967).	CA
Hertel, I. V. & Ross, K. J.	J. Phys. B <u>2</u> , 484 (1969).	misc. forb.
Rydberg, S. & Svanberg, S.	"Second Conference on Atomic Spectroscopy," No. 24 (Institut A für Experimentalphysik der Technischen Universität, Hannover, Germany, 1970).	life
Klyucharev, A. N. & Lazarenko, A. V.	Opt. Spectrosc. (USSR) <u>30</u> , 628 (1971).	absorpt., rel.
Sayer, B., Wang, R., Jeannet, J. C., & Sassi, M.	J. Phys. B <u>4</u> , L20 (1971).	absorpt. forb.
Sternheimer, R. M. & Peierls, R. F.	Phys. Rev. A <u>3</u> , 837 (1971).	quant.
Rydberg, S. & Svanberg, S.	Phys. Scr. <u>5</u> , 209 (1972).	life
Weisheit, J. C.	Phys. Rev. A <u>5</u> , 1621 (1972).	quant.
Chen, C. L. & Phelps, A. V.	Phys. Rev. A <u>7</u> , 470 (1973).	absorpt.
Norcross, D. W.	Phys. Rev. A <u>7</u> , 606 (1973).	quant.

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*See also Section 3.2 for some further references.

Cu (Copper)*

Cu I

Semenova, O. P., Gorbunova, T. M., & Kirilov, A. E.	Sov. Phys. J. <u>12</u> , 927 (1969).	emiss. rel.
Sukhanova, G. B. & Semenova, O. P.	Izv. Vyssh. Ucheb. Zaved., Fiz. No. 11, 147 (1970).	emiss.
Bieniewski, T. M. & Krueger, T. K.	Aerospace Research Laboratories Report ARL 71-0135, Project No. 7114 (1971).	absorpt., SCF
Pichler, G.	Fizika <u>4</u> , 179 (1972).	CA

Cu XIX

Kunze, H. J. & Datla, R. U.	Astrophys. J. <u>169</u> , 425 (1971).	CA
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Cu XXII

Gruzdev, P. F.	Zh. Prikl. Spektrosk. <u>14</u> , 1100 (1971).	quant.
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Eu (Europium)*

Eu I

Kretzen, H., Lange, W., Luther, J., Steudel, A., & Walther, H.	"Premiere Reunion de l'Association Europeene de Spectroscopie Atomique," No. 31 (Faculte des Sciences, Paris--Orsay, 1969).	life
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F (Fluorine)*

F I

Irwin, D. J. G. & Livingston, A. E.	Can. J. Phys. <u>51</u> , 848 (1973).	life
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F II

Kiselevskii, L. I. & Trukhan, E. P.	J. Appl. Spectrosc. (USSR) <u>9</u> , 1299 (1968).	emiss.
Sinanoglu, O.	Comments At. Mol. Phys. <u>2</u> , 73 (1970).	quant.
Chin-Bing, S. A. & Head, C. E.	Bull. Amer. Phys. Soc. [II] <u>16</u> , 1344 (1971).	life
Irwin, D. J. G. & Livingston, A. E.	Can. J. Phys. <u>51</u> , 848 (1973).	life

F III

Kiselevskii, L. I. & Trukhan, E. P.	J. Appl. Spectrosc. (USSR) <u>9</u> , 1299 (1968).	emiss.
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*See also Section 3.2 for some further references.

Irwin, D. J. G. & Livingston, A. E.	Can. J. Phys. <u>51</u> , 848 (1973).	life
F IV		
Kiselevskii, L. I. & Trukhan, E. P.	J. Appl. Spectrosc. (USSR) <u>9</u> , 1299 (1968).	emiss.
Barrette, L. & Drouin, R.	Can. J. Spectrosc. <u>18</u> , 50 (1973).	life
Irwin, D. J. G. & Livingston, A. E.	Can. J. Phys. <u>51</u> , 848 (1973).	life
F V		
Kiselevskii, L. I. & Trukhan, E. P.	J. Appl. Spectrosc. (USSR) <u>9</u> , 1299 (1968).	emiss.
Barrette, L. & Drouin, R.	Can. J. Spectrosc. <u>18</u> , 50 (1973).	life
F VI		
Nicolaides, C. & Sinanoglu, O.	J. Phys. (Paris) Colloq. C4, Suppl. 11-12, <u>31</u> , C4-117 (1970).	quant.
Burke, P. G., Hibbert, A., & Robb, W. D.	J. Phys. B <u>5</u> , 37 (1972).	quant.
Barrette, L. & Drouin, R.	Can. J. Spectrosc. <u>18</u> , 50 (1973).	life
Nicolaides, C. A., Beck, D. R., & Sinanoglu, O.	J. Phys. B <u>6</u> , 62 (1973).	quant.
F VII		
Donnelly, B., Smith, W. W., Pegg, D. J., Brown, M., & Sellin, I. A.	Phys. Rev. A <u>4</u> , 122 (1971).	life
Sellin, I. A., Pegg, D. J., Brown, M., Smith, W. W., & Donnelly, B.	Phys. Rev. Lett. <u>27</u> , 1108 (1971).	life
Zapol', B. P., Kunin, P. E., Lyubimov, A. V., Taksar, I. M., & Fabrikant, I. I.	Izv. Akad. Nauk. Latv. SSR, Ser. Fiz. Tekh. Nauk No. 6, 14 (1971).	quant.
Richard, P., Kauffman, R. L., Hopkins, F. F., Woods, C. W., & Jamison, K. A.	Phys. Rev. Lett. <u>30</u> , 888 (1973).	life
F VIII		
Drake, G. W. F. & Dalgarno, A.	Astrophys. J. <u>157</u> , 459 (1969).	quant.
Schiff, B., Pekeris, C. L., & Accad, Y.	Phys. Rev. A <u>4</u> , 885 (1971).	quant.
Jacobs, V. L.	J. Phys. B <u>5</u> , 213 (1972).	quant. forb.
Mowat, J. R., Sellin, I. A., Peterson, R. S., Pegg, D. J., Brown, M. D., & MacDonald, J. R.	Bull. Amer. Phys. Soc., Ser. II <u>18</u> , 610 (1973).	life
Richard, P., Kauffman, R. L., Hopkins, F. F., Woods, C. W., & Jamison, K. A.	Phys. Rev. Lett. <u>30</u> , 888 (1973).	life

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Fe (Iron)*

Fe I

Morozova, N. G. & Startsev, G. P.	Bull. Acad. Sci. USSR, Phys. Ser. <u>26</u> , 933 (1962).	emiss., rel.
Gorbunova, T. M. & Semenova, O. P.	Spektrosk. Tr. Sib. Soveshch., 4th, 1965, 429-431 (Ed. Prilezhaeva, N. A., "Nauka," Moscow, 1969).	emiss., rel.
Allen, C. W.	Mon. Notic. Roy. Astron. Soc. <u>152</u> , 295 (1971).	estim.
Bell, R. A. & Upson, W. L., II	Astrophys. Lett. <u>9</u> , 109 (1971).	comm.
Bridges, J. M. & Richter, J.	"Proceedings of the Tenth International Conference on Phenomena in Ionized Gases," 384 (Donald Parsons & Co., Ltd., Oxford, England, 1971).	emiss.
Kelly, H. P.	"The Menzel Symposium on Solar Physics, Atomic Spectra, and Gaseous Nebulae," 37-46, Nat. Bur. Stand. (U.S.), Spec. Publ. 353 (Aug. 1971).	SCF
Huber, M. C. E. & Parkinson, W. H.	Astrophys. J. <u>172</u> , 229 (1972).	hook
Huber, M. C. E. & Tubbs, E. F.	Astrophys. J. <u>177</u> , 847 (1972).	hook, absorpt.
Hilborn, R. C. & De Zafra, R.	Bull. Amer. Phys. Soc., Ser. II <u>18</u> , 121 (1973).	life
Ross, J. E.	Astrophys. J. <u>180</u> , 599 (1973).	quant.

Fe II

Kuzmitskite, L. L., & Ushpalis, K. K.	"Theory of Electronic Shells of Atoms and Molecules," Institute of Physics and Mathematics, Academy of Sciences of the Lithuanian SSR, 144-147, (Publishing House "Mintis," Vilnius, 1971).	quant.
Assousa, G. E. & Smith, W. H.	Astrophys. J. <u>176</u> , 259 (1972).	life

Fe VII

Warner, B. & Kirkpatrick, R. C.	Mon. Notic. Roy. Astron. Soc. <u>144</u> , 397 (1969).	quant., quant. forb.
	Publications of the Department of Astronomy, University of Texas at Austin, Vol. III, No. 2 (1969).	

Fe IX

Cowan, R. D.	J. Phys. (Paris), Colloq. <u>31</u> , C4-191 (1970).	quant.
Fawcett, B. C., Cowan, R. D., Kononov, E. Y., & Hayes, R. W.	J. Phys. B <u>5</u> , 1255 (1972).	quant.

Fe X

Widing, K. G., Sandlin, G. D., & Cowan, R. D.	Astrophys. J. <u>169</u> , 405 (1971).	quant.
Fawcett, B. C., Cowan, R. D., Kononov, E. Y., & Hayes, R. W.	J. Phys. B <u>5</u> , 1255 (1972).	quant.

Fe XI

Widing, K. G., Sandlin, G. D., & Cowan, R. D.	Astrophys. J. <u>169</u> , 405 (1971).	quant.
Fawcett, B. C., Cowan, R. D., Kononov, E. Y., & Hayes, R. W.	J. Phys. B <u>5</u> , 1255 (1972).	quant.

Fe XII

Widing, K. G., Sandlin, G. D., & Cowan, R. D.	Astrophys. J. <u>169</u> , 405 (1971).	quant.
Fawcett, B. C., Cowan, R. D., Kononov, E. Y., & Hayes, R. W.	J. Phys. B <u>5</u> , 1255 (1972).	quant.

*See also Section 3.2 for some further references.

Fe XIII

Widing, K. G., Sandlin, G. D., & Cowan, R. D.	Astrophys. J. <u>169</u> , 405 (1971).	quant.
Fawcett, B. C., Cowan, R. D., Kononov, E. Y., & Hayes, R. W.	J. Phys. B <u>5</u> , 1255 (1972).	quant.

Fe XIV

Widing, K. G., Sandlin, G. D., & Cowan, R. D.	Astrophys. J. <u>169</u> , 405 (1971).	quant.
Fawcett, B. C., Cowan, R. D., Kononov, E. Y., & Hayes, R. W.	J. Phys. B <u>5</u> , 1255 (1972).	quant.

Fe XV

Fawcett, B. C., Cowan, R. D., Kononov, E. Y., & Hayes, R. W.	J. Phys. B <u>5</u> , 1255 (1972).	quant.
Cowan, R. D. & Widing, K. G.	Astrophys. J. <u>180</u> , 285 (1973).	quant.

Fe XVI

Kunze, H. J. & Datla, R. U.	Astrophys. J. <u>169</u> , 425 (1971).	CA
Tull, C. E., McEachran, R. P., & Cohen, M.	At. Data <u>3</u> , 169 (1971).	SCF
Tull, C. E., Jackson, M., McEachran, R. P., & Cohen, M.	J. Quant. Spectrosc. Radiat. Transfer <u>12</u> , 893 (1972).	quant. forb.

Fe XVII

Loulergue, M.	Astron. Astrophys. <u>15</u> , 216 (1971).	quant.
Crance, M.	At. Data <u>5</u> , 185 (1973).	quant.

Fe XXII

Shamey, L. J.	J. Opt. Soc. Amer. <u>61</u> , 942 (1971).	quant.
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Fe XXIII

Doschek, G. A., Meekins, J. F., & Cowan, R. D.	Astrophys. J. <u>177</u> , 261 (1972).	quant.
Nussbaumer, H.	Astron. Astrophys. <u>16</u> , 77 (1972).	quant.

Fe XXIV

Doschek, G. A., Meekins, J. F., & Cowan, R. D.	Astrophys. J. <u>177</u> , 261 (1972).	quant.
Vainshtein, L. A. & Safronova, U. I.	Kratk. Soobshch. Fiz. No. 3, 40 (1972).	quant.

Fe XXV

Vainshtein, L. A. & Safronova, U. I.	Kratk. Soobshch. Fiz. No. 3, 40 (1972).	quant.
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Ga (Gallium)*

Ga I

Andersen, T. & Sørensen, G.	Phys. Rev. A <u>5</u> , 2447 (1972).	life
	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	

Ga II

Andersen, T. & Sørensen, G.	Phys. Rev. A <u>5</u> , 2447 (1972).	life
	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	
Sørensen, G.	Phys. Rev. A <u>7</u> , 85 (1973).	life

Ga III

Andersen, T. & Sørensen, G.	Phys. Rev. A <u>5</u> , 2447 (1972).	life
Sørensen, G.	Phys. Rev. A <u>7</u> , 85 (1973).	life

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Ge (Germanium)*

Ge I

Miller, M. H. & Roig, R. A.	Phys. Rev. A <u>7</u> , 1208 (1973).	emiss.
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Ge II

Miller, M. H. & Roig, R. A.	Phys. Rev. A <u>7</u> , 1208 (1973).	emiss.
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Ge III

Sørensen, G.	Phys. Rev. A <u>7</u> , 85 (1973).	life
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Ge IV

Sørensen, G.	Phys. Rev. A <u>7</u> , 85 (1973).	life
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H (Hydrogen)*

H I

Schürmann, D., Schlagheck, W., Heckmann, P. H., Bukow, H. H., & Buttlar, H. v.	Z. Phys. <u>246</u> , 239 (1971).	life
Kaplan, S. A., Kleiman, E. B., & Oiringel', I. M.	Sov. Astron.-AJ <u>16</u> , 241 (1972).	quant. forb.

*See also Section 3.2 for some further references.

Khandelwal, G. S. & Fitchard, E. E. *Astrophys. J.* 173, 737 (1972). quant.

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He (Helium)*

He I

Kantseryavichyus, A.	<i>Litov. Fiz. Sb.</i> <u>6</u> , 215 (1966).	quant.
Bridgett, K. A. & King, T. A.	"Optical Pumping and Atomic Line Shape," 359-368 (Ed. Skalinski, T., Panstwowe Wydawnictwo Naukowe, Warsaw, 1969).	life
Buchhaupt, K.	<i>Z. Naturforsch. A</i> <u>24</u> , 1058 (1969).	life
Drake, G. W. F. & Dalgarno, A.	<i>Astrophys. J.</i> <u>157</u> , 459 (1969).	quant.
Berry, H. G.	"Third Conference on Atomic Spectroscopy," No. 11 (University of Reading, Reading, England, 1971).	life
Berry, H. G., Desesquelles, J., & Dufay, M.	<i>Phys. Lett. A</i> <u>36</u> , 237 (1971).	life
Campos, J.	<i>An. Fis.</i> <u>67</u> , 439 (1971).	life
Carre, M., Desesquelles, J., Dufay, M., & Gaillard, M. L.	<i>Phys. Rev. Lett.</i> <u>27</u> , 1407 (1971).	life
Carre, M., Desesquelles, J., Dufay, M., & Gaillard, M. L.	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	life
Inhof, R. E. & Read, F. H.	<i>J. Phys. B</i> <u>4</u> , 450 (1971).	life
Jacobs, V.	<i>Phys. Rev. A</i> <u>4</u> , 939 (1971).	quant. forb.
Khristenko, S. V. & Vetchinkin, S. I.	<i>Opt. Spectrosc. (USSR)</i> <u>31</u> , 269 (1971).	quant.
Schäfer, J.	Max-Planck-Institut für Physik und Astrophysik, München, MPI-PAE/Astro 48, 1971.	quant.
Schäfer, J.	Max-Planck-Institut für Physik und Astrophysik, München, MPI-PAE/Astro 49, 1971.	quant.
Schiff, B., Pekeris, C. L., & Accad, Y.	<i>Phys. Rev. A</i> <u>4</u> , 885 (1971).	quant.
Van Dyck, R. S., Jr., Johnson, C. E., & Shugart, H. A.	<i>Phys. Rev. A</i> <u>4</u> , 1327 (1971).	life, forb.
Bachmann, W. & Janke, W.	<i>Z. Naturforsch. A</i> <u>27</u> , 579 (1972).	life
Berry, H. G., Curtis, L. J., & Subtil, J. L.	<i>J. Opt. Soc. Amer.</i> <u>62</u> , 771 (1972).	life
Berry, H. G., Desesquelles, J., & Dufay, M.	<i>Phys. Rev. A</i> <u>6</u> , 600 (1972).	life
Buchhaupt, K.	<i>Z. Naturforsch. A</i> <u>27</u> , 572 (1972).	life
Chung, K. T. & Chen, I-hsiun	<i>Phys. Rev. Lett.</i> <u>28</u> , 783 (1972).	quant.
Cohen, M. & McEachran, R. P.	<i>Can. J. Phys.</i> <u>50</u> , 1363 (1972).	SCF
Cohen, M. & McEachran, R. P.	<i>Chem. Phys. Lett.</i> <u>14</u> , 201 (1972).	SCF
Cohen, M., McEachran, R. P., & Rosenthal, D.	<i>J. Phys. B</i> <u>5</u> , 184 (1972).	quant. forb.
Devine, K. R. & Stewart, A. L.	<i>J. Phys. B</i> <u>5</u> , 2182 (1972).	quant.
Jacobs, V. L.	<i>J. Phys. B</i> <u>5</u> , 213 (1972).	quant. forb.

*See also Section 3.2 for some further references.

McCavert, P. & Rudge, M. R. H.	J. Phys. B <u>5</u> , 832 (1972).	quant.
Peresse, J., Pochat, A., & Le Nadan, A.	C. R. H. Acad. Sci., Ser. B <u>274</u> , 791 (1972).	life
Pochat, A., Gelebart, F., Doritch, M., & Peresse, J.	Analusis <u>1</u> , 368 (1972).	life
Erman, P., Brzozowski, J., & Sigfridsson, B.	Phys. Lett. A <u>43</u> , 125 (1973).	life
Moos, H. W. & Woodworth, J. R.	Phys. Rev. Lett. <u>30</u> , 775 (1973).	emiss. forb.
Yellin, J., Hadeishi, T., & Michel, M. C.	Bull. Amer. Phys. Soc., Ser. II <u>18</u> , 121 (1973).	life
Yellin, J., Hadeishi, T., & Michel, M. C.	Phys. Rev. Lett. <u>30</u> , 417 (1973).	life

He II

Novick, R.	"Physics of the One- and Two-Electron Atoms," 296-325 (Ed. Bopp, F. & Kleinpoppen, H., North-Holland Publ. Co., Amsterdam, 1969).	quant.
Baumann, M. & Eibofner, A.	Phys. Lett. A <u>35</u> , 173 (1971).	life
Eibofner, A.	Z. Phys. <u>249</u> , 73 (1971).	life
Kocher, C. A., Clendenin, J. E., & Novick, R.	Phys. Rev. Lett. <u>29</u> , 615 (1972).	life
Prior, M. H.	Phys. Rev. Lett. <u>29</u> , 611 (1972).	life

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Hg (Mercury)*

Hg I

May, A. D. & Leung, C. Y.	"Excitation Electronique D'Une Vapeur Atomique-Application a la Spectroscopie," No. 162, 167-170 (Centre National de la Recherche Scientifique, Paris, 1967).	life
Dodd, J. N., Sandle, W. J., & Williams, O. M.	J. Phys. B <u>3</u> , 256 (1970).	life
Popp, M., Schäfer, G., & Bodenstedt, E.	Z. Phys. <u>240</u> , 71 (1970).	life
Dodsworth, B., Gay, J. C., & Omont, A.	"Third Conference on Atomic Spectroscopy," No. 29 (University of Reading, Reading, England, 1971).	life
Platz, P.	J. Phys. (Paris) <u>32</u> , 773 (1971).	misc.
L'vov, B. V.	J. Quant. Spectrosc. Radiat. Transfer <u>12</u> , 651 (1972). Method. Phys. Anal. <u>8</u> , 3 (1972).	absorpt.
Andersen, T. & Sørensen, G.	J. Quant. Spectrosc. Radiat. Transfer <u>13</u> , 369 (1973).	life

Hg II

Andersen, T. & Sørensen, G.	J. Quant. Spectrosc. Radiat. Transfer <u>13</u> , 369 (1973).	life
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*See also Section 3.2 for some further references.

I (Iodine)*

I I

Donovan, R. J. & Husain, D.	Trans. Faraday Soc. <u>62</u> , 11 (1966).	life, forb.
Husain, D. & Wiesenfeld, J. R.	Trans. Faraday Soc. <u>63</u> , 1349 (1967).	life, forb.
O'Brien, D. E. & Bowen, J. R.	J. Appl. Phys. <u>40</u> , 4767 (1969).	quant. forb.
Deakin, J. J., Husain, D., & Wiesenfeld, J. R.	Chem. Phys. Lett. <u>10</u> , 146 (1971).	life
Derwent, R. G. & Thrush, B. A.	Chem. Phys. Lett. <u>9</u> , 591 (1971).	life, forb.
Abrahamson, E. W., Andrews, L. J., Husain, D., & Wiesenfeld, J. R.	J. Chem. Soc., Faraday Trans. 2, Part 1 <u>68</u> , 48 (1972).	life, forb.

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In (Indium)*

In I

Andersen, T. & Sørensen, G.	Phys. Rev. A <u>5</u> , 2447 (1972).	life
	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	

In II

Andersen, T. & Sørensen, G.	Phys. Rev. A <u>5</u> , 2447 (1972).	life
	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	
Andersen, T., Kirkegaard Nielsen, A., & Sørensen, G.	Phys. Scr. <u>6</u> , 122 (1972).	life

In III

Andersen, T., Kirkegaard Nielsen, A., & Sørensen, G.	Phys. Scr. <u>6</u> , 122 (1972).	life
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K (Potassium)*

K I

Kantseriyavichyus, A. Yu. & Zhilionite, S. V.	Litov. Fiz. Sb. <u>7</u> , 73 (1967).	CA
Hertel, I. V. & Ross, K. J.	J. Phys. B <u>1</u> , 697 (1968).	misc., forb.
Hertel, I. V. & Ross, K. J.	J. Phys. B <u>2</u> , 285 (1969).	misc., forb.
Mazing, M. A. & Serapinas, P. D.	Opt. Spectrosc. (USSR) <u>27</u> , 482 (1969).	absorpt.

*See also Section 3.2 for some further references.

Ali, M. A.	J. Quant. Spectrosc. Radiat. Transfer <u>11</u> , 1611 (1971).	quant. forb.
Sternheimer, R. M. & Peierls, R. F.	Phys. Rev. A <u>3</u> , 837 (1971).	quant.
Svanberg, S.	Phys. Scr. <u>4</u> , 275 (1971).	life
Weisheit, J. C. & Dalgarno, A.	Chem. Phys. Lett. <u>9</u> , 517 (1971).	quant.
Zapol', B. P., Kunin, P. E., Lyubimov, A. V., Taksar, I. M., & Fabrikant, I. I.	Izv. Akad. Nauk. Latv. SSR, Ser. Fiz. Tekh. Nauk No. 6, 14 (1971).	quant.
Weisheit, J. C.	Phys. Rev. A <u>5</u> , 1621 (1972).	quant.
Darrigo, R., Le Toulouzan, J.-N., & Chappey, B.	C. R. H. Acad. Sci., Ser. B <u>276</u> , 119 (1973).	misc.

K II

Cowan, R. D.	J. Phys. (Paris), Colloq. <u>31</u> , C4-191 (1970).	quant.
Poulizac, M. C. & Buchet, J. P.	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	life
Kumar, C. K., Assousa, G. E., Brown, L., & Ford, W. K., Jr.	Phys. Rev. A <u>7</u> , 112 (1973).	life

K III

Poulizac, M. C. & Buchet, J. P.	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	life
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K V

Garstang, R. H.	"Planetary Nebulae--International Astronomical Union Symposium," No. 34, 143-152 (Ed. Osterbrock, D. E. & O'Dell, C. R., D. Reidel Publ. Co., Dordrecht, Holland, 1968).	quant. forb.
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K IX

Kunze, H. J. & Datla, R. U.	Astrophys. J. <u>169</u> , 425 (1971).	CA
Zapol', B. P., Kunin, P. E., Lyubimov, A. V., Taksar, I. M., & Fabrikant, I. I.	Izv. Akad. Nauk. Latv. SSR, Ser. Fiz. Tekh. Nauk No. 6, 14 (1971).	quant.

K X

Crance, M.	At. Data <u>5</u> , 185 (1973).	quant.
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Kr (Krypton)*

Kr I

Malakhov, V. P.	Sov. Phys. J. <u>8</u> , 128 (1965).	absorpt.
Stedman, D. H. & Setser, D. W.	"Progress in Reaction Kinetics," Vol. 6, Part 4, 193-238 (Ed. Jennings, K. R. & Cundall, R. B., Pergamon Press, New York, 1971).	quant. forb.

*See also Section 3.2 for some further references.

Aymar, M.	Physica (Utrecht) <u>57</u> , 178 (1972).	quant.
Delgado, A., Campos, J., & Sanchez del Rio, C.	Z. Phys. <u>257</u> , 9 (1972).	life
Miller, M. H., Roig, R. A., & Bengtson, R. D.	J. Opt. Soc. Amer. <u>62</u> , 1027 (1972).	emiss., rel.
Van Dyck, R. S., Jr., Johnson, C. E., & Shugart, H. A.	Phys. Rev. A <u>5</u> , 991 (1972).	life, forb.

Kr II

Levchenko, M. A.	Izv. Vyssh. Ucheb. Zaved., Fiz. No. 10, 147 (1971).	emiss.
Andersen, T., Madsen, O. H., & Sørensen, G.	Phys. Scr. <u>6</u> , 125 (1972).	life
Delgado, A., Campos, J., & Sanchez del Rio, C.	Z. Phys. <u>257</u> , 9 (1972).	life
Miller, M. H., Roig, R. A., & Bengtson, R. D.	J. Opt. Soc. Amer. <u>62</u> , 1027 (1972).	emiss., rel.

Kr VII

Sørensen, G.	Phys. Rev. A <u>7</u> , 85 (1973).	interp.
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Kr VIII

Sørensen, G.	Phys. Rev. A <u>7</u> , 85 (1973).	interp.
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Li (Lithium)*

Li I

Kantseriyavichyus, A. Yu. & Zhilionite, S. V.	Litov. Fiz. Sb. <u>7</u> , 73 (1967).	CA
Berry, H. G., Bromander, J., Martinson, I., & Buchta, R.	Phys. Scr. <u>3</u> , 63 (1971).	life
Berry, H. G., Desesquelles, J., & Dufay, M.	Phys. Lett. A <u>36</u> , 237 (1971).	life
Khristenko, S. V. & Vetchinkin, S. I.	Opt. Spectrosc. (USSR) <u>31</u> , 269 (1971).	quant.
Novick, R. & Weinflash, D.	Nat. Bur. Stand. (U.S.), Spec. Publ. 343, 403 (1971).	life
Sternheimer, R. M. & Peierls, R. F.	Phys. Rev. A <u>3</u> , 837 (1971).	quant.
Zapol', B. P., Kunin, P. E., Lyubimov, A. V., Taksar, I. M., & Fabrikant, I. I.	Izv. Akad. Nauk. Latv. SSR, Ser. Fiz. Tekh. Nauk No. 6, 14 (1971).	quant.
Berry, H. G., Pinnington, E. H., & Subtil, J. L.	J. Opt. Soc. Am. <u>62</u> , 767 (1972).	life
Caves, T. C. & Dalgarno, A.	J. Quant. Spectrosc. Radiat. Transfer <u>12</u> , 1539 (1972).	quant.
Maitra, R. K. & Mukherjee, P. K.	Int. J. Quantum Chem. <u>6</u> , 211 (1972).	SCF
Buchet, J. P., Buchet-Poulizac, M. C., Berry, H. G., & Drake, G. W. F.	Phys. Rev. A <u>7</u> , 922 (1973).	life

*See also Section 3.2 for some further references.

Lunell, S.	Phys. Rev. A <u>7</u> , 1229 (1973).	quant.
Li II		
Kantseriyavichyus, A.	Litov. Fiz. Sb. <u>6</u> , 215 (1966).	quant.
Drake, G. W. F. & Dalgarno, A.	Astrophys. J. <u>157</u> , 459 (1969).	quant.
Berry, H. G., Bromander, J., Martinson, I., & Buchta, R.	Phys. Scr. <u>3</u> , 63 (1971).	life
Prior, M. H. & Shugart, H. A.	Phys. Rev. Lett. <u>27</u> , 902 (1971).	life
Schiff, B., Pekeris, C. L., & Accad, Y.	Phys. Rev. A <u>4</u> , 885 (1971).	quant.
Berry, H. G., Curtis, L. J., & Subtil, J. L.	J. Opt. Soc. Amer. <u>62</u> , 771 (1972).	life
Cohen, M. & McEachran, R. P.	Can. J. Phys. <u>50</u> , 1363 (1972).	SCF
Cohen, M. & McEachran, R. P.	Chem. Phys. Lett. <u>14</u> , 201 (1972).	SCF
Cohen, M., McEachran, R. P., & Rosenthal, D.	J. Phys. B <u>5</u> , 184 (1972).	quant. forb.
Jacobs, V. L.	J. Phys. B <u>5</u> , 213 (1972).	quant. forb.
Schürmann, D., Haas, D., Heckmann, P. H., & Buttler, H. v.	Phys. Lett. A <u>42</u> , 27 (1972).	life
Adler, A., Kahan, W., Novick, R., & Lucatorto, T.	Phys. Rev. A <u>7</u> , 967 (1973).	life
Buchet, J. P., Buchet-Poulizac, M. C., Berry, H. G., & Drake, G. W. F.	Phys. Rev. A <u>7</u> , 922 (1973).	life

Li III

Schürmann, D., Haas, D., Heckmann, P. H., & Buttler, H. v.	Phys. Lett. A <u>40</u> , 323 (1972).	life
Schürmann, D., Haas, D., Heckmann, P. H., & Buttler, H. v.	Phys. Lett. A <u>42</u> , 27 (1972).	life

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Lu (Lutetium)*

Lu I

Göbel, L. H.	Z. Naturforsch. A <u>26</u> , 1559 (1971).	life
"Third Conference on Atomic Spectroscopy," No. 41 (University of Reading, Reading, England, 1971).		

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*See also Section 3.2 for some further references.

Mg (Magnesium)*

Mg I

Ovechkin, G. V., Bakhtovarsheev Sh., & Sandrigailo, L. E.	J. Appl. Spectrosc. (USSR) <u>7</u> , 309 (1967).	emiss.
Heilig, K. & Schimborski, B.	"Third Conference on Atomic Spectroscopy," No. 48 (University of Reading, Reading, England, 1971).	life
Smith, W. H. & Liszt, H. S.	J. Opt. Soc. Amer. <u>61</u> , 938 (1971).	life
Andersen, T., Mølhave, L., & Sørensen, G.	Astrophys. J. <u>178</u> , 577 (1972).	life
Beck, D. R. & Sinanoglu, O.	Phys. Rev. Lett. <u>28</u> , 945 (1972).	quant.
Hameed, S.	J. Phys. B <u>5</u> , 746 (1972).	quant.
Kim, Y.-K. & Bagus, P. S.	J. Phys. B <u>5</u> , L193 (1972).	quant.
L'vov, B. V.	J. Quant. Spectrosc. Radiat. Transfer <u>12</u> , 651 (1972). Method. Phys. Anal. <u>8</u> , 3 (1972).	absorpt.
Bates, G. N. & Altick, P. L.	J. Phys. B <u>6</u> , 653 (1973).	quant.

Mg II

Ali, M. A.	J. Quant. Spectrosc. Radiat. Transfer <u>11</u> , 1611 (1971).	quant. forb.
Kunze, H. J. & Datla, R. U.	Astrophys. J. <u>169</u> , 425 (1971).	CA
Smith, W. H. & Liszt, H. S.	J. Opt. Soc. Amer. <u>61</u> , 938 (1971).	life
Zapol', B. P., Kunin, P. E., Lyubimov, A. V., Taksar, I. M., & Fabrikant, I. I.	Izv. Akad. Nauk. Latv. SSR, Ser. Fiz. Tekh. Nauk No. 6, 14 (1971).	quant.
Andersen, T., Mølhave, L., & Sørensen, G.	Astrophys. J. <u>178</u> , 577 (1972).	life
Black, J. H., Weisheit, J. C., & Lariana, E.	Astrophys. J. <u>177</u> , 567 (1972).	quant.
Tull, C. E., Jackson, M., McEachran, R. P., & Cohen, M.	Can. J. Phys. <u>50</u> , 1169 (1972).	quant. forb.
McEachran, R. P. & Cohen, M.	J. Quant. Spectrosc. Radiat. Transfer <u>13</u> , 197 (1973).	comm. forb.

Mg VI

Garstang, R. H.	"Planetary Nebulae--International Astronomical Union Symposium," No. 34, 143-152 (Ed. Osterbrock, D. E. & O'Dell, C. R., D. Reidel Publ. Co., Dordrecht, Holland, 1968).	quant. forb.
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Mg IX

Nussbaumer, H.	Astron. Astrophys. <u>16</u> , 77 (1972).	quant.
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Mg X

Zapol', B. P., Kunin, P. E., Lyubimov, A. V., Taksar, I. M., & Fabrikant, I. I.	Izv. Akad. Nauk. Latv. SSR, Ser. Fiz. Tekh. Nauk No. 6, 14 (1971).	quant.
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*See also Section 3.2 for some further references.

Mn (Manganese)*

Mn I

Blackwell, D. E. & Collins, B. S.	Mon. Notic. Roy. Astron. Soc. <u>157</u> , 255 (1972).	absorpt., rel.
Blackwell, D. E., Collins, B. S., & Petford, A. D.	Solar Phys. <u>23</u> , 292 (1972).	absorpt., rel.
Nussbaumer, H. & Swings, J. P.	Astrophys. J. <u>172</u> , 121 (1972).	quant. forb.
Fischer, C. F.	J. Quant. Spectrosc. Radiat. Transfer <u>13</u> , 201 (1973).	quant., SCF

Mn VI

Warner, B. & Kirkpatrick, R. C.	Mon. Notic. Roy. Astron. Soc. <u>144</u> , 397 (1969).	quant., quant. forb.
	Publications of the Department of Astronomy, University of Texas at Austin, Vol. III, No. 2 (1969).	

Mn XVI

Crance, M.	At. Data <u>5</u> , 185 (1973).	quant.
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Mo (Molybdenum)*

Mo I

Kirsanova, N. N.	Zh. Prikl. Spektrosk. <u>15</u> , 536 (1971).	emiss.
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N (Nitrogen)*

N I

Lawrence, G. M. & Savage, B. D.	Phys. Rev. <u>141</u> , 67 (1966).	life
	"Excitation Electronique D'Une Vapeur Atomique-Application a la Spectroscopie," No. 162, 239-245 (Centre National de la Recherche Scientifique, Paris, 1967).	
Morris, J. C., Krey, R. U., & Garrison, R. L.	Aerospace Research Laboratories Report No. ARL 68-0103 (1968).	emiss.
Nicolaides, C. & Sinanoglu, O.	J. Phys. (Paris) Colloq. C4, Suppl. 11-12, <u>31</u> , C4-117 (1970).	quant. forb.
Berry, H. G., Bickel, W. S., Bashkin, S., Desesquelles, J., & Schectman, R. M.	J. Opt. Soc. Amer. <u>61</u> , 947 (1971).	life
Desesquelles, J.	Ann. Phys. (Paris) <u>6</u> , 71 (1971).	life
Nicolaides, C., Sinanoglu, O., & Westhaus, P.	Phys. Rev. A <u>4</u> , 1400 (1971).	quant. forb.
Dumont, P. D.	Physica (Utrecht) <u>62</u> , 104 (1972).	life

*See also Section 3.2 for some further references.

N II

Lawrence, G. M. & Savage, B. D.	Phys. Rev. <u>141</u> , 67 (1966).	life
	"Excitation Electronique D'Une Vapeur Atomique--Application a la Spectroscopie," No. 162, 239-245 (Centre National de la Recherche Scientifique, Paris, 1967).	
Nicolaides, C. & Sinanoglu, O.	J. Phys. (Paris) Colloq. C4, Suppl. 11-12, <u>31</u> , C4-117 (1970).	quant., quant. forb.
Sinanoglu, O.	Comments At. Mol. Phys. <u>2</u> , 73 (1970).	quant.
Berry, H. G., Bickel, W. S., Bashkin, S., Desesquelles, J., & Schectman, R. M.	J. Opt. Soc. Amer. <u>61</u> , 947 (1971).	life
Desesquelles, J.	Ann. Phys. (Paris) <u>6</u> , 71 (1971).	life
Nicolaides, C., Sinanoglu, O., & Westhaus, P.	Phys. Rev. A <u>4</u> , 1400 (1971).	quant. forb.
Sinanoglu, O.	"Theory of Electronic Shells of Atoms and Molecules," Institute of Physics and Mathematics, Academy of Sciences of the Lithuanian SSR, 31-44 (Publishing House "Mintis," Vilnius, 1971).	quant.
Sinanoglu, O.	"Topics in Modern Physics--A Tribute to Edward U. Condon," 287-295 (Ed. Brittin, W. E. & Odabasi, H., Colorado Associated Univ. Press, Boulder, Colorado, 1971).	quant.
Buchet, J. P., Poulizac, M. C., & Carre, M.	J. Opt. Soc. Amer. <u>62</u> , 623 (1972).	life
Dumont, P. D.	Physica (Utrecht) <u>62</u> , 104 (1972).	life
Mallow, J. V. & Burns, J.	J. Quant. Spectrosc. Radiat. Transfer <u>12</u> , 1081 (1972).	life
Nysten, K.-E. & Weckström, K.	Comment Phys.-Math. <u>42</u> , 59 (1972).	life

N III

Sinanoglu, O.	Comments At. Mol. Phys. <u>2</u> , 73 (1970).	SCF
Berry, H. G., Bickel, W. S., Bashkin, S., Desesquelles, J., & Schectman, R. M.	J. Opt. Soc. Amer. <u>61</u> , 947 (1971).	life
Desesquelles, J.	Ann. Phys. (Paris) <u>6</u> , 71 (1971).	life
McEachran, R. P. & Cohen, M.	J. Quant. Spectrosc. Radiat. Transfer <u>11</u> , 1819 (1971).	SCF
Nussbaumer, H.	Astrophys. J. <u>170</u> , 93 (1971).	quant.
Sinanoglu, O.	"Theory of Electronic Shells of Atoms and Molecules," Institute of Physics and Mathematics, Academy of Sciences of the Lithuanian SSR, 31-44 (Publishing House "Mintis," Vilnius, 1971).	quant.
Buchet, J. P., Poulizac, M. C., & Carre, M.	J. Opt. Soc. Amer. <u>62</u> , 623 (1972).	life
Dumont, P. D.	Physica (Utrecht) <u>62</u> , 104 (1972).	life

N IV

Eissner, W. & Nussbaumer, H.	"Premiere Reunion de l'Association Europeene de Spectroscopie Atomique," No. 42 (Faculte des Sciences, Paris-Orsay, 1969).	quant.
Friedrich, H. & Trefftz, E.	Max-Planck-Institut fur Physik und Astrophysik MPI-PAE/ASTRO 29 (1969).	quant.
Nicolaides, C. & Sinanoglu, O.	J. Phys. (Paris) Colloq. C4, Suppl. 11-12, <u>31</u> , C4-117 (1970).	quant.
Berry, H. G., Bickel, W. S., Bashkin, S., Desesquelles, J., & Schectman, R. M.	J. Opt. Soc. Amer. <u>61</u> , 947 (1971).	life

Desesquelles, J.	Ann. Phys. (Paris) <u>6</u> , 71 (1971).	life
Buchet, J. P., Poulizac, M. C., & Carre, M.	J. Opt. Soc. Amer. <u>62</u> , 623 (1972).	life
Burke, P. G., Hibbert, A., & Robb, W. D.	J. Phys. B <u>5</u> , 37 (1972).	quant.
Dumont, P. D.	Physica (Utrecht) <u>62</u> , 104 (1972).	life
Nussbaumer, H.	Astron. Astrophys. <u>16</u> , 77 (1972).	quant.
Dalgarno, A., Constantinides, E., & Victor, G. A.	Air Force Cambridge Research Laboratories Report No. AFCRL- 73-0215 (1973).	quant.
Nicolaides, C. A., Beck, D. R., & Sinanoglu, O.	J. Phys. B <u>6</u> , 62 (1973).	quant.

N V

Berry, H. G., Bickel, W. S., Bashkin, S., Desesquelles, J., & Schectman, R. M.	J. Opt. Soc. Amer. <u>61</u> , 947 (1971).	life
Desesquelles, J.	Ann. Phys. (Paris) <u>6</u> , 71 (1971).	life
Zapol', B. P., Kunin, P. E., Lyubimov, A. V., Taksar, I. M., & Fabrikant, I. I.	Izv. Akad. Nauk. Latv. SSR, Ser. Fiz. Tekh. Nauk No. 6, 14 (1971).	quant.
Buchet, J. P., Poulizac, M. C., & Carre, M.	J. Opt. Soc. Amer. <u>62</u> , 623 (1972).	life
Dumont, P. D.	Physica (Utrecht) <u>62</u> , 104 (1972).	life

N VI

Drake, G. W. F. & Dalgarno, A.	Astrophys. J. <u>157</u> , 459 (1969).	quant.
Desesquelles, J.	Ann. Phys. (Paris) <u>6</u> , 71 (1971).	life
Schiff, B., Pekeris, C. L., & Accad, Y.	Phys. Rev. A <u>4</u> , 885 (1971).	quant.
Cohen, M. & McEachran, R. P.	Can. J. Phys. <u>50</u> , 1363 (1972).	SCF
Cohen, M. & McEachran, R. P.	Chem. Phys. Lett. <u>14</u> , 201 (1972).	SCF
Jacobs, V. L.	J. Phys. B <u>5</u> , 213 (1972).	quant. forb.

N VII

Desesquelles, J.	Ann. Phys. (Paris) <u>6</u> , 71 (1971).	life
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Na (Sodium)*

Na I

Kantseryavichyus, A. Yu. & Zhiliorite, S. V.	Litov. Fiz. Sb. <u>7</u> , 73 (1967).	CA
Baumann, M.	Z. Naturforsch. A <u>24</u> , 1049 (1969).	life
Hertel, I. V. & Ross, K. J.	J. Phys. B <u>2</u> , 285 (1969).	misc., forb.
Ali, M. A.	J. Quant. Spectrosc. Radiat. Transfer <u>11</u> , 1611 (1971).	quant. forb.
Kunze, H. J. & Datla, R. U.	Astrophys. J. <u>169</u> , 425 (1971).	CA
Nagibina, I. M. & Polushkina, I. A.	Izv. Fiz. Inst. ANEB (At. Nauchnoeksp. Baza), Bulg. Akad. Nauk <u>21</u> , 201 (1971).	hook, rel.
Sternheimer, R. M. & Peierls, R. F.	Phys. Rev. A <u>3</u> , 837 (1971).	quant.
Taksar, I. M., Kunin, P. E., Zapol', B. P., & Kruglevskii, V. A.	"Theory of Electronic Shells of Atoms and Molecules," Institute of Physics and Mathematics, Academy of Sciences of the Lithuanian SSR, 100-102 (Publishing House "Mintis," Vilnius, 1971).	quant.
Weisheit, J. C. & Dalgarno, A.	Chem. Phys. Lett. <u>9</u> , 517 (1971).	quant.
Zapol', B. P., Kunin, P. E., Lyubimov, A. V., Taksar, I. M., & Fabrikant, I. I.	Izv. Akad. Nauk. Latv. SSR, Ser. Fiz. Tekh. Nauk No. 6, 14 (1971).	quant.
Andersen, T., Madsen, O. H., & Sørensen, G.	Phys. Scr. <u>6</u> , 125 (1972).	life
Erdmann, T. A., Figger, H., & Walther, H.	Opt. Comm. <u>6</u> , 166 (1972).	life
Tull, C. E., Jackson, M., McEachran, R. P., & Cohen, M.	Can. J. Phys. <u>50</u> , 1169 (1972).	quant. forb.
Weisheit, J. C.	Phys. Rev. A <u>5</u> , 1621 (1972).	quant.
Korff, D. F., Chung, S., & Lin, C. C.	Phys. Rev. A <u>7</u> , 545 (1973).	quant.
McEachran, R. P. & Cohen, M.	J. Quant. Spectrosc. Radiat. Transfer <u>13</u> , 197 (1973).	comm. forb.

Na VIII

Nussbaumer, H.	Astron. Astrophys. <u>16</u> , 77 (1972).	quant.
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Na IX

Zapol', B. P., Kunin, P. E., Lyubimov, A. V., Taksar, I. M., & Fabrikant, I. I.	Izv. Akad. Nauk. Latv. SSR, Ser. Fiz. Tekh. Nauk No. 6, 14 (1971).	quant.
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* * * * *

Ne (Neon)*

Ne I

Vasilenko, L. S. & Chebotaev, V. P.	J. Appl. Spectrosc. (USSR) <u>6</u> , 353 (1967).	emiss.
Decomps, B. & Dumont, M.	IEEE J. Quantum Electron. <u>QE-4</u> , 916 (1968).	life

*See also Section 3.2 for some further references.

Vainshtein, L. A. & Minaeva, L. A.	J. Appl. Spectrosc. (USSR) <u>9</u> , 684 (1968).	quant.
Yabuzaki, T. & Ogawa, T.	J. Appl. Phys. <u>39</u> , 4477 (1968).	life
Carrington, C. D. & Corney, A.	"Premiere Reunion de l'Association Europeene de Spectroscopie Atomique," No. 76 (Faculte des Sciences, Paris-Orsay, 1969).	life
Chenevier, M. & Goullet, G.	J. Phys. (Paris), Colloq. C1 <u>30</u> , 84 (1969).	life
Wang, C. H., Tomlinson, W. J., & George, R. T., Jr.	Phys. Rev. <u>181</u> , 125 (1969).	life
Arrathoon, R. & Sealer, D. A.	Phys. Rev. A <u>4</u> , 815 (1971).	life
Carre, M., Desesquelles, J., Dufay, M., & Gaillard, M. L.	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	life
Kazantsev, S. & Chaika, M.	Opt. Spectrosc. (USSR) <u>31</u> , 273 (1971).	life
Kernahan, J. A., Denis, A., & Drouin, R.	Phys. Scr. <u>4</u> , 49 (1971).	life
Kohl, J. L., Curtis, L. J., Schechtman, R. M., & Chojnacki, D. A.	J. Opt. Soc. Amer. <u>61</u> , 1656 (1971).	life
Kotlikov, E., Todorov, G., & Chaika, M.	Opt. Spectrosc. (USSR) <u>30</u> , 99 (1971).	life
Stedman, D. H. & Setser, D. W.	"Progress in Reaction Kinetics," Vol. 6, Part 4, 193-238 (Ed. Jennings, K. R. & Cundall, R. B., Pergamon Press, New York, 1971).	quant. forb.
Andersen, T., Madsen, O. H., & Sørensen, G.	Phys. Scr. <u>6</u> , 125 (1972).	life
Carrington, C. G.	J. Phys. B <u>5</u> , 1572 (1972).	life
Lilly, R. A.	J. Opt. Soc. Amer. <u>62</u> , 1023 (1972).	misc.
Van Dyck, R. S., Jr., Johnson, C. E., & Shugart, H. A.	Phys. Rev. A <u>5</u> , 991 (1972).	life, forb.
Menzies, R. T.	Phys. Lett. A <u>43</u> , 209 (1973).	life
Schechtman, R. M., Curtis, L. J., & Chojnacki, D. A.	J. Opt. Soc. Amer. <u>63</u> , 99 (1973).	life
Schechtman, R. M., Shoffstall, D. R., Ellis, D. G., & Chojnacki, D. A.	J. Opt. Soc. Amer. <u>63</u> , 80 (1973).	quant. rel., life
Starace, A. F.	J. Phys. B <u>6</u> , 76 (1973).	quant.

Ne II

Lawrence, G. M. & Savage, B. D.	Astrophys. J. <u>146</u> , 940 (1966).	life
	"Excitation Electronique D'Une Vapeur Atomique-Application a la Spectroscopie," No. 162, 239-245 (Centre National de la Recherche Scientifique, Paris, 1967).	
Sinanoglu, O.	Comments At. Mol. Phys. <u>2</u> , 73 (1970).	quant.
Ishii, K.	Sci. Light (Tokyo) <u>20</u> , 66 (1971).	quant.
Kernahan, J. A., Denis, A., & Drouin, R.	Phys. Scr. <u>4</u> , 49 (1971).	life
Luyken, B. F. J., De Heer, F. J., Beas, R. Ch., & Tawara, H.	Physica (Utrecht) <u>62</u> , 249 (1972).	emiss., rel.

Ne III

Denis, A., Desesquelles, J., & Dufay, M.	"Physics of the One- and Two-Electron Atoms," 399-406 (Ed. Bopp, F. & Kleinpoppen, H., North-Holland Publ. Co., Amsterdam, 1969).	life
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*See also Section 3.2 for some further references.

Kernahan, J. A., Denis, A., & Drouin, R.	Phys. Scr. <u>4</u> , 49 (1971).	life
Ne IV		
Denis, A., Desesquelles, J., & Dufay, M.	"Physics of the One- and Two-Electron Atoms," 399-406 (Ed. Bopp, F. & Kleinpoppen, H., North-Holland Publ. Co., Amsterdam, 1969).	life
Kernahan, J. A., Denis, A., & Drouin, R.	Phys. Scr. <u>4</u> , 49 (1971).	life
Ne V		
Denis, A., Desesquelles, J., & Dufay, M.	"Physics of the One- and Two-Electron Atoms," 399-406 (Ed. Bopp, F. & Kleinpoppen, H., North-Holland Publ. Co., Amsterdam, 1969).	life
Kernahan, J. A., Denis, A., & Drouin, R.	Phys. Scr. <u>4</u> , 49 (1971).	life
Ne VI		
Denis, A., Desesquelles, J., & Dufay, M.	"Physics of the One- and Two-Electron Atoms," 399-406 (Ed. Bopp, F. & Kleinpoppen, H., North-Holland Publ. Co., Amsterdam, 1969).	life
Kernahan, J. A., Denis, A., & Drouin, R.	Phys. Scr. <u>4</u> , 49 (1971).	life
Shamey, L. J.	J. Opt. Soc. Amer. <u>61</u> , 942 (1971).	quant.
Ne VII		
Eissner, W. & Nussbaumer, H.	"Premiere Reunion de l'Association Europeene de Spectroscopie Atomique," No. 42 (Faculte des Sciences, Paris-Orsay, 1969).	quant.
Beauchemin, G., Kernahan, J. A., Knystautas, E., Irwin, D. J. G., & Drouin, R.	Phys. Lett. A <u>40</u> , 194 (1972).	life
Burke, P. G., Hibbert, A., & Robb, W. D.	J. Phys. B <u>5</u> , 37 (1972).	quant.
Nussbaumer, H.	Astron. Astrophys. <u>16</u> , 77 (1972).	quant.
Nicolaides, C. A., Beck, D. R., & Sinanoglu, O.	J. Phys. B <u>6</u> , 62 (1973).	quant.
Ne VIII		
Zapol', B. P., Kurin, P. E., Lyubimov, A. V., Taksar, I. M., & Fabrikant, I. I.	Izv. Akad. Nauk. Latv. SSR, Ser. Fiz. Tekh. Nauk No. 6, 14 (1971).	quant.
Druetta, M., Datla, R. U., & Kunze, H. J.	Astrophys. J. <u>174</u> , 215 (1972).	quant.
Ne IX		
Drake, G. W. F. & Dalgarno, A.	Astrophys. J. <u>157</u> , 459 (1969).	quant.
Schiff, B., Pekeris, C. L., & Accad, Y.	Phys. Rev. A <u>4</u> , 885 (1971).	quant.
Jacobs, V. L.	J. Phys. B <u>5</u> , 213 (1972).	quant. forb.

* * * * *

Ni (Nickel)*

Ni I

Becker, U., Göbel, L. H., & Klotz, W. D.	"Third Conference on Atomic Spectroscopy," No. 9 (University of Reading, Reading, England, 1971).	life
Marek, J.	Astron. Astrophys. <u>17</u> , 83 (1972).	life

Ni IX

Warner, B. & Kirkpatrick, R. C.	Mon. Notic. Roy. Astron. Soc. <u>144</u> , 397 (1969). Publications of the Department of Astronomy, University of Texas at Austin, Vol. III, No. 2 (1969).	quant., quant. forb.
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Ni XI

Cowan, R. D.	J. Phys. (Paris), Colloq. <u>31</u> , C4-191 (1970).	quant.
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Ni XVIII

Tull, C. E., McEachran, R. P., & Cohen, M.	At. Data <u>3</u> , 169 (1971).	SCF
Tull, C. E., Jackson, M., McEachran, R. P., & Cohen, M.	J. Quant. Spectrosc. Radiat. Transfer <u>12</u> , 893 (1972).	quant. forb.

Ni XIX

Crance, M.	At. Data <u>5</u> , 185 (1973).	quant.
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Ni XXI

Gruzdev, P. F.	Zh. Prikl. Spektrosk. <u>14</u> , 1100 (1971).	quant.
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* * * * *

O (Oxygen)*

O I

Evans, W. F. J. & Vallance Jones, A.	Can. J. Phys. <u>43</u> , 697 (1965).	life, forb.
Lawrence, G. M. & Savage, B. D.	Astrophys. J. <u>146</u> , 940 (1966). "Excitation Electronique D'Une Vapeur Atomique-Application a la Spectroscopie," No. 162, 239-245 (Centre National de la Recherche Scientifique, Paris, 1967).	life
Morris, J. C., Krey, R. U., & Garrison, R. L.	Aerospace Research Laboratories Report No. ARL 68-0103 (1968).	emiss.
Nicolaides, C. & Sinanoglu, O.	J. Phys. (Paris) Colloq. C4, Suppl. 11-12, <u>31</u> , C4-117 (1970).	quant.
Nicolaides, C., Sinanoglu, O., & Westhaus, P.	Comments. At. Mol. Phys. <u>2</u> , 79 (1970). Phys. Rev. A <u>4</u> , 1400 (1971).	comm. quant. forb.
Forsman, E. N.	Diss. Abstr. <u>31</u> , 4245B (1971).	absorpt.

*See also Section 3.2 for some further references.

Irwin, D. G. J., Kernahan, J. A., Lin, C. C., Livingston, A. E., & Pinnington, E. H.	"Third Conference on Atomic Spectroscopy," No. 49 (University of Reading, Reading, England, 1971).	life
Pinnington, E. H.	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	life
Scourfield, M. W. J., Parsons, N. R., Dennis, L. P., & Innes, W. F.	J. Geophys. Res. <u>76</u> , 3692 (1971).	emiss. forb.
Corney, A. & Williams, O. M.	J. Phys. B <u>5</u> , 686 (1972).	life, forb.
Johnson, C. E.	Phys. Rev. A <u>5</u> , 2688 (1972).	life
Lin, C. C., Irwin, D. J. G., Kernahan, J. A., Livingston, A. E., & Pinnington, E. H.	Can. J. Phys. <u>50</u> , 2496 (1972).	life
Mallow, J. V. & Burns, J.	J. Quant. Spectrosc. Radiat. Transfer <u>12</u> , 1081 (1972).	life
Nicolaides, C. A.	Chem. Phys. Lett. <u>17</u> , 436 (1972).	quant.
Wells, W. C. & Zipf, E. C.	Trans. Amer. Geophys. Union <u>53</u> , 459 (1972).	life
Forsman, E. N. & Clark, K. C.	Phys. Rev. A <u>7</u> , 1203 (1973).	absorpt.
Sawada, T. & Ganas, P. S.	Phys. Rev. A <u>7</u> , 617 (1973).	quant.

O II

Nicolaides, C. & Sinanoglu, O.	J. Phys. (Paris) Colloq. C4, Suppl. 11-12, <u>31</u> , C4-117 (1970).	quant. forb.
Irwin, D. G. J., Kernahan, J. A., Lin, C. C., Livingston, A. E., & Pinnington, E. H.	"Third Conference on Atomic Spectroscopy," No. 49 (University of Reading, Reading, England, 1971).	life
Pinnington, E. H.	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	life
Pinnington, E. H., Lin, C. C., Kernahan, J. A., & Irwin, D. J. G.	Phys. Lett. A <u>36</u> , 299 (1971).	life
Nicolaides, C., Sinanoglu, O., & Westhaus, P.	Phys. Rev. A <u>4</u> , 1400 (1971).	quant. forb.
Clark, J. H. & Head, C. E.	Phys. Rev. A <u>6</u> , 1722 (1972).	life
Liu, C. H. & Church, D. A.	Phys. Rev. Lett. <u>29</u> , 1208 (1972).	life
Lin, C. C., Irwin, D. J. G., Kernahan, J. A., Livingston, A. E., & Pinnington, E. H.	Can. J. Phys. <u>50</u> , 2496 (1972).	life

O III

Eissner, W. & Jones, M.	J. Phys. (Paris), Colloq. <u>31</u> , C4-149 (1970).	quant.
Nicolaides, C. & Sinanoglu, O.	J. Phys. (Paris), Colloq. C4, Suppl. 11-12, <u>31</u> , C4-117 (1970).	quant., quant. forb.
Irwin, D. G. J., Kernahan, J. A., Lin, C. C., Livingston, A. E., & Pinnington, E. H.	"Third Conference on Atomic Spectroscopy," No. 49 (University of Reading, Reading, England, 1971).	life
Nicolaides, C., Sinanoglu, O., & Westhaus, P.	Phys. Rev. A <u>4</u> , 1400 (1971).	quant. forb.
Pinnington, E. H.	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	life
Pinnington, E. H., Lin, C. C., Kernahan, J. A., & Irwin, D. J. G.	Phys. Lett. A <u>36</u> , 299 (1971).	life
Sinanoglu, O.	"Theory of Electronic Shells of Atoms and Molecules," Institute of Physics and Mathematics, Academy of Sciences of the Lithuanian SSR, 31-44 (Publishing House "Mintis," Vilnius, 1971).	quant.

Sinanoglu, O.	"Topics in Modern Physics--A Tribute to Edward U. Condon," 287-295 (Ed. Brittin, W. E. & Odabasi, H., Colorado Associated Univ. Press, Boulder, Colorado, 1971).	quant.
Lin, C. C., Irwin, D. J. G., Kernahan, J. A., Livingston, A. E., & Pinnington, E. H.	Can. J. Phys. <u>50</u> , 2496 (1972).	life

O IV

Irwin, D. G. J., Kernahan, J. A., Lin, C. C., Livingston, A. E., & Pinnington, E. H.	"Third Conference on Atomic Spectroscopy," No. 49 (University of Reading, Reading, England, 1971).	life
McEachran, R. P. & Cohen, M.	J. Quant. Spectrosc. Radiat. Transfer <u>11</u> , 1819 (1971).	SCF
Pinnington, E. H.	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	life
Pinnington, E. H., Lin, C. C., Kernahan, J. A., & Irwin, D. J. G.	Phys. Lett. A <u>36</u> , 299 (1971).	life
Sinanoglu, O.	"Theory of Electronic Shells of Atoms and Molecules," Institute of Physics and Mathematics, Academy of Sciences of the Lithuanian SSR, 31-44 (Publishing House "Mintis," Vilnius, 1971).	quant.
Buchet, J. P., Dufay, M., & Poulizac, M. C.	Phys. Lett. A <u>40</u> , 127 (1972).	life
Lin, C. C., Irwin, D. J. G., Kernahan, J. A., Livingston, A. E., & Pinnington, E. H.	Can. J. Phys. <u>50</u> , 2496 (1972).	life

O V

Eissner, W. & Nussbaumer, H.	"Premiere Reunion de l'Association Europeene de Spectroscopie Atomique," No. 42 (Faculte des Sciences, Paris-Orsay, 1969).	quant.
Nicolaides, C. & Sinanoglu, O.	J. Phys. (Paris) Colloq. C4, Suppl. 11-12, <u>31</u> , C4-117 (1970).	quant.
Druetta, M., Poulizac, M. C., & Ceyzeriat, P.	J. Phys. B <u>4</u> , 1070 (1971).	life
Irwin, D. G. J., Kernahan, J. A., Lin, C. C., Livingston, A. E., & Pinnington, E. H.	"Third Conference on Atomic Spectroscopy," No. 49 (University of Reading, Reading, England, 1971).	life
Pinnington, E. H.	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	life
Buchet, J. P., Dufay, M., & Poulizac, M. C.	Phys. Lett. A <u>40</u> , 127 (1972).	life
Burke, P. G., Hibbert, A., & ' Robb, W. D.	J. Phys. B <u>5</u> , 37 (1972).	quant.
Lin, C. C., Irwin, D. J. G., Kernahan, J. A., Livingston, A. E., & Pinnington, E. H.	Can. J. Phys. <u>50</u> , 2496 (1972).	life
Nussbaumer, H.	Astron. Astrophys. <u>16</u> , 77 (1972).	quant.
Dalgarno, A., Constantinides, E., & Victor, G. A.	Air Force Cambridge Research Laboratories Report No. AFCLR-73-0215 (1973).	quant.
Nicolaides, C. A., Beck, D. R., & Sinanoglu, O.	J. Phys. B <u>6</u> , 62 (1973).	quant.

O VI

Donnelly, B., Smith, W. W., Pegg, D. J., Brown, M., & Sellin, I. A.	Phys. Rev. A <u>4</u> , 122 (1971).	life
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Sellin, I. A., Pegg, D. J., Brown, M., Smith, W. W., & Donnelly, B.	Phys. Rev. Lett. <u>27</u> , 1108 (1971).	life
Capol', B. P., Kunin, P. E., Lyubimov, A. V., Taksar, I. M., & Fabrikant, I. I.	Izv. Akad. Nauk. Latv. SSR, Ser. Fiz. Tekh. Nauk No. 6, 14 (1971).	quant.
Buchet, J. P., Dufay, M., & Poulizac, M. C.	Phys. Lett. A <u>40</u> , 127 (1972).	life
O VII		
Drake, G. W. F. & Dalgarno, A.	Astrophys. J. <u>157</u> , 459 (1969).	quant.
Schiff, B., Pekeris, C. L., & Accad, Y.	Phys. Rev. A <u>4</u> , 885 (1971).	quant.
Wohen, M. & McEachran, R. P.	Can. J. Phys. <u>50</u> , 1363 (1972).	SCF
Wohen, M. & McEachran, R. P.	Chem. Phys. Lett. <u>14</u> , 201 (1972).	SCF
Jacobs, V. L.	J. Phys. B <u>5</u> , 213 (1972).	quant. forb.

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P (Phosphorus)*

P I		
Lawrence, G. M. & Savage, B. D.	Astrophys. J. <u>146</u> , 940 (1966).	life
	"Excitation Electronique D'Une Vapeur Atomique-Application a la Spectroscopie," No. 162, 239-245 (Centre National de la Recherche Scientifique, Paris, 1967).	
Curtis, L. J., Martinson, I., & Buchta, R.	Phys. Scr. <u>3</u> , 197 (1971).	life
Grof, W. F.	Thesis, Air Force Institute of Technology, 1971.	absorpt.
Martinson, I.	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	life
Miller, M. H., Roig, R. A., & Bengtson, R. D.	Phys. Rev. A <u>4</u> , 1709 (1971).	emiss.
P II		
Lawrence, G. M. & Savage, B. D.	Astrophys. J. <u>146</u> , 940 (1966).	life.
	"Excitation Electronique D'Une Vapeur Atomique-Application a la Spectroscopie," No. 162, 239-245 (Centre National de la Recherche Scientifique, Paris, 1967).	
Curtis, L. J., Martinson, I., & Buchta, R.	Phys. Scr. <u>3</u> , 197 (1971).	life
Martinson, I.	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	life
Miller, M. H., Roig, R. A., & Bengtson, R. D.	Phys. Rev. A <u>4</u> , 1709 (1971).	emiss.
Mølhave, L. & Sørensen, G.	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	life
Beck, D. R. & Sinanoglu, O.	Phys. Rev. Lett. <u>28</u> , 945 (1972).	quant.

*See also Section 3.2 for some further references.

P III

Curtis, L. J., Martinson, I., & Buchta, R.	Phys. Scr. <u>3</u> , 197 (1971).	life
Martinson, I.	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	life

P IV

Curtis, L. J., Martinson, I., & Buchta, R.	Phys. Scr. <u>3</u> , 197 (1971).	life
Martinson, I.	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	life
Mølhave, L. & Sørensen, G.	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	life
Beck, D. R. & Sinanoglu, O.	Phys. Rev. Lett. <u>28</u> , 945 (1972).	quant.

P V

Curtis, L. J., Martinson, I., & Buchta, R.	Phys. Scr. <u>3</u> , 197 (1971).	life
Kunze, H. J. & Datla, R. U.	Astrophys. J. <u>169</u> , 425 (1971).	CA
Martinson, I.	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	life
Mølhave, L. & Sørensen, G.	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	life

P VI

Crance, M.	At. Data <u>5</u> , 185 (1973).	quant.
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P XIII

Zapol', B. P., Kunin, P. E., Lyubimov, A. V., Taksar,	Izv. Akad. Nauk. Latv. SSR, Ser. Fiz. Tekh. Nauk No. 6, 14 (1971).	quant.
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Pb (Lead)*

Pb I

Grof, W. F.	Thesis, Air Force Institute of Technology (1971).	absorpt.
Gibbs, H. M.	Phys. Rev. A <u>5</u> , 2408 (1972).	life, forb.
Baghdadi, A., Halpern, J. B., & Saloman, E. B.	Phys. Rev. A <u>7</u> , 403 (1973).	life
Gibbs, H. M., Churchill, G. G., & Salamo, G. J.	Phys. Rev. A <u>7</u> , 1766 (1973).	emiss., rel.

Pb III

Andersen, T., Kirkegaard Nielsen, A., & Sørensen, G.	Phys. Scr. <u>6</u> , 122 (1972).	life
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*See also Section 3.2 for some further references.

Pb IV

Andersen, T., Kirkegard Nielsen,
A., & Sørensen, G.

Phys. Scr. 6, 122 (1972).

life

* * * * *

Pd (Palladium)*

Pd I

Baumann, M. & Liening, H.

Phys. Lett. A 36, 329 (1971).

life

* * * * *

Rb (Rubidium)*

Rb I

Kantseryavichyus, A. Yu. &
Zhilionite, S. V.

Litov. Fiz. Sb. 7, 73 (1967).

CA

Hertel, I. V. & Ross, K. J.

J. Phys. B 2, 484 (1969).

misc. forb.

Belin, G. & Svanberg, S.

Phys. Scr. 4, 269 (1971).

life

Sternheimer, R. M. & Peierls,
R. F.

Phys. Rev. A 3, 837 (1971).

quant.

Zapol', B. P., Kunin, P. E.,
Lyubimov, A. V., Taksar,
I. M., & Fabrikant, I. I.

Izv. Akad. Nauk. Latv. SSR, Ser. Fiz. Tekh. Nauk No. 6,
14 (1971).

quant.

Weisheit, J. C.

Phys. Rev. A 5, 1621 (1972).

quant.

Rb II

Kumar, C. K., Assousa, G. E.,
Brown, L., & Ford, W. K., Jr.

Phys. Rev. A 7, 112 (1973).

life

Rb VIII

Sørensen, G.

Phys. Rev. A 7, 85 (1973).

interp.

Rb IX

Sørensen, G.

Phys. Rev. A 7, 85 (1973).

interp.

* * * * *

*See also Section 3.2 for some further references.

S (Sulfur)*

S I

Lawrence, G. M. & Savage, B. D.	Astrophys. J. <u>146</u> , 940 (1966).	life
	"Excitation Electronique D'Une Vapeur Atomique-Application a la Spectroscopie," No. 162, 239-245 (Centre National de la Recherche Scientifique, Paris, 1967).	
Schulz-Gulde, E.	Z. Phys. <u>245</u> , 308 (1971).	emiss.

S II

Lawrence, G. M. & Savage, B. D.	Astrophys. J. <u>146</u> , 940 (1966).	life
	"Excitation Electronique D'Une Vapeur Atomique-Application a la Spectroscopie," No. 162, 239-245 (Centre National de la Recherche Scientifique, Paris, 1967).	
Schulz-Gulde, E.	Z. Phys. <u>245</u> , 308 (1971).	emiss.
Beck, D. R. & Sinanoglu, O.	Phys. Rev. Lett. <u>28</u> , 945 (1972).	quant.

S III

Beck, D. R. & Sinanoglu, O.	Phys. Rev. Lett. <u>28</u> , 945 (1972).	quant.
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S VI

Kunze, H. J. & Datla, R. U.	Astrophys. J. <u>169</u> , 425 (1971).	CA
Zapol', B. P., Kunin, P. E., Lyubimov, A. V., Taksar, I. M., & Fabrikant, I. I.	Izv. Akad. Nauk. Latv. SSR, Ser. Fiz. Tekh. Nauk No. 6, 14 (1971).	quant.

S VII

Crance, M.	At. Data <u>5</u> , 185 (1973).	quant.
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S X

Ivanov, L. N., Ivanova, E. P., & Tolmachev, V. V.	Sov. Phys. J. <u>12</u> , 1578 (1969).	quant.
Ivanov, L. N., Ivanova, E. P., & Tolmachev, V. V.	"Theory of Electronic Shells of Atoms and Molecules," Institute of Physics and Mathematics, Academy of Sciences of the Lithuanian SSR, 90-94 (Publishing House "Mintis," Vilnius, 1971).	quant.

S XII

Shamey, L. J.	J. Opt. Soc. Amer. <u>61</u> , 942 (1971).	quant.
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S XIII

Nussbaumer, H.	Astron. Astrophys. <u>16</u> , 77 (1972).	quant.
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S XVI

Schmieder, R. W. & Marrus, R.	Bull. Amer. Phys. Soc., Ser. II <u>16</u> , 848 (1971).	life
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*See also Section 3.2 for some further references.

Sb (Antimony)*

Sb IV

Andersen, T., Kirkegard Nielsen, A., & Sørensen, G.	Phys. Scr. <u>6</u> , 122 (1972).	life
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Sb V

Andersen, T., Kirkegard Nielsen, A., & Sørensen, G.	Phys. Scr. <u>6</u> , 122 (1972).	life
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Sc (Scandium)*

Sc I

Birkhahn, R., Ney, J., & Tuszynski, W.	"Third Conference on Atomic Spectroscopy," No. 15 (University of Reading, Reading, England, 1971).	life
Buchta, R., Curtis, L. J., Martinson, I., & Brzozowski, J.	Phys. Scr. <u>4</u> , 55 (1971).	life
L'vov, B. V.	J. Quant. Spectrosc. Radiat. Transfer <u>12</u> , 651 (1972). Method. Phys. Anal. <u>8</u> , 3 (1972).	absorpt., rel.
Fischer, C. F.	J. Quant. Spectrosc. Radiat. Transfer <u>13</u> , 201 (1973).	quant., SCF

Sc II

Warner, B. & Kirkpatrick, R. C.	Mon. Notic. Roy. Astron. Soc. <u>144</u> , 397 (1969). Publications of the Department of Astronomy, University of Texas at Austin, Vol. III, No. 2 (1969).	quant., quant. forb.
Buchta, R., Curtis, L. J., Martinson, I., & Brzozowski, J.	Phys. Scr. <u>4</u> , 55 (1971).	life

Sc III

Ali, M. A.	J. Quant. Spectrosc. Radiat. Transfer <u>11</u> , 1611 (1971).	quant. forb.
Buchta, R., Curtis, L. J., Martinson, I., & Brzozowski, J.	Phys. Scr. <u>4</u> , 55 (1971).	life
Warner, B.	Observatory <u>92</u> , 50 (1972).	quant., quant. forb.

Sc IV

Cowan, R. D.	J. Phys. (Paris), Colloq. <u>31</u> , C4-191 (1970).	quant.
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Sc XII

Crance, M.	At. Data <u>5</u> , 185 (1973).	quant.
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*See also Section 3.2 for some further references.

Se (Selenium)*

Se V

Sørensen, G. Phys. Rev. A 7, 85 (1973). life

Se VI

Sørensen, G. Phys. Rev. A 7, 85 (1973). life

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Si (Silicon)*

Si I

Lawrence, G. M. & Savage, B. D. Astrophys. J. 146, 940 (1966). life
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 a la Spectroscopie," No. 162, 239-245 (Centre National
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 Cowan, R. D. J. Phys. (Paris), Colloq. 31, C4-191 (1970). quant.
 Schulz-Gulde, E. Astron. Astrophys. 21, 313 (1972). emiss.

Si II

Lawrence, G. M. & Savage, B. D. Astrophys. J. 146, 940 (1966). life
 "Excitation Electronique D'Une Vapeur Atomique—Application
 a la Spectroscopie," No. 162, 239-245 (Centre National
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 Berry, H. G., Bromander, J.,
 Curtis, L. J., & Buchta, R. Phys. Scr. 3, 125 (1971). life
 Beck, D. R. & Sinanoglu, O. Phys. Rev. Lett. 28, 945 (1972). quant.
 Yukov, E. A. Sov. Astron. - AJ 15, 867 (1972). quant.
 Irwin, D. J. G. & Livingston,
 A. E. Can. J. Phys. 51, 848 (1973). life

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Berry, H. G., Bromander, J.,
 Curtis, L. J., & Buchta, R. Phys. Scr. 3, 125 (1971). life
 Beck, D. R. & Sinanoglu, O. Phys. Rev. Lett. 28, 945 (1972). quant.
 Yukov, E. A. Sov. Astron. - AJ 15, 867 (1972). quant.
 Irwin, D. J. G. & Livingston,
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Si IV

Berry, H. G., Bromander, J.,
 Curtis, L. J., & Buchta, R. Phys. Scr. 3, 125 (1971). life
 Kunze, H. J. & Datla, R. U. Astrophys. J. 169, 425 (1971). CA
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 Lyubimov, A. V., Taksar,
 I. M., & Fabrikant, I. I. Izv. Akad. Nauk. Latv. SSR, Ser. Fiz. Tekh. Nauk No. 6,
 14 (1971). quant.
 Irwin, D. J. G. & Livingston,
 A. E. Can. J. Phys. 51, 848 (1973). life

*See also Section 3.2 for some further references.

Si V

Crance, M. At. Data 5, 185 (1973). quant.

Si VI

Nicolaidis, C. A. & Beck, D. R. J. Phys. B 6, 535 (1973). quant.

Si VII

Nicolaidis, C. A. & Beck, D. R. J. Phys. B 6, 535 (1973). quant.

Si VIII

Nicolaidis, C. A. & Beck, D. R. J. Phys. B 6, 535 (1973). quant.

Si IX

Nicolaidis, C. A. & Beck, D. R. J. Phys. B 6, 535 (1973). quant.

Si X

Eissner, W. & Jones, M. J. Phys. (Paris), Colloq. 31, C4-149 (1970). quant.

Shamey, L. J. J. Opt. Soc. Amer. 61, 942 (1971). quant.

Nicolaidis, C. A. & Beck, D. R. J. Phys. B 6, 535 (1973). quant.

Si XI

Nussbaumer, H. Astron. Astrophys. 16, 77 (1972). quant.

Nicolaidis, C. A. & Beck, D. R. J. Phys. B 6, 535 (1973). quant.

Nicolaidis, C. A., Beck, D. R., & Sinanoglu, O. J. Phys. B 6, 62 (1973). quant.

Si XII

Zapol', B. P., Kunin, P. E., Lyubimov, A. V., Taksar, I. M., & Fabrikant, I. I. Izv. Akad. Nauk. Latv. SSR, Ser. Fiz. Tekh. Nauk No. 6, 14 (1971). quant.

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Sn (Tin)*

Sn I

Gvechkin, G. V., Bakhtovarshoev Sh., & Sandrigailo, L. E. J. Appl. Spectrosc. (USSR) 7, 309 (1967). emiss.

L'vov, B. V., Katskov, D. A., & Kruglikova, L. P. Zh. Prikl. Spektrosk. 14, 784 (1971). absorpt., rel.

Andersen, T., Madsen, O. H., & Sørensen, G. J. Opt. Soc. Amer. 62, 1118 (1972). life

Holmgren, L. & Svanberg, S. Phys. Scr. 5, 135 (1972). life

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Sn III

Andersen, T., Kirkegard Nielsen, A., & Sørensen, G.	Phys. Scr. <u>6</u> , 122 (1972).	life
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Sn IV

Andersen, T., Kirkegard Nielsen, A., & Sørensen, G.	Phys. Scr. <u>6</u> , 122 (1972).	life
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Sr (Strontium)*

Sr I

Zilitis, V. A.	Opt. Spectrosc. (USSR) <u>29</u> , 438 (1970).	quant.
Hameed, S.	J. Phys. B <u>5</u> , 746 (1972).	quant.
Kim, Y.-K. & Bagus, P. S.	J. Phys. B <u>5</u> , L193 (1972).	quant.
L'vov, B. V.	J. Quant. Spectrosc. Radiat. Transfer <u>12</u> , 651 (1972).	absorpt.
	Method. Phys. Anal. <u>8</u> , 3 (1972).	

Sr IX

Sørensen, G.	Phys. Rev. A <u>7</u> , 85 (1973).	interp.
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Sr X

Sørensen, G.	Phys. Rev. A <u>7</u> , 85 (1973).	interp.
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Te (Tellurium)*

Te I

Garpman, S., Lidö, G., Rydberg, S., & Svanberg, S.	Z. Phys. <u>247</u> , 238 (1971).	life
	"Third Conference on Atomic Spectroscopy," No. 37 (University of Reading, Reading, England, 1971).	

Te V

Andersen, T., Kirkegard Nielsen, A., & Sørensen, G.	Phys. Scr. <u>6</u> , 122 (1972).	life
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Te VI

Andersen, T., Kirkegard Nielsen, A., & Sørensen, G.	Phys. Scr. <u>6</u> , 122 (1972).	life
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Ti (Titanium)*

Ti I

Prokof'ev, V. N. & Ratovyl'skaya, T. A.	Izv. Krym. Astrofiz. Observ. <u>39</u> , 186 (1969).	compil.
Hese, A.	Z. Naturforsch. A <u>27</u> , 188 (1972).	life
	"Second Conference on Atomic Spectroscopy," No. 8 (Institut A für Experimentalphysik der Technischen Universität, Hannover, Germany, 1970).	
Fischer, C. F.	J. Quant. Spectrosc. Radiat. Transfer <u>13</u> , 201 (1973).	quant., SCF
Roberts, J. R., Andersen, T., & Sørensen, G.	Astrophys. J. <u>181</u> , 567 (1973).	life
Wolnik, S. J. & Berthel, R. O.	Astrophys. J. <u>179</u> , 665 (1973).	emiss.

Ti II

Andersen, T., Roberts, J. R., & Sørensen, G.	"Third Conference on Atomic Spectroscopy," No. 4 (University of Reading, Reading, England, 1971).	life
Roberts, J. R., Andersen, T., & Sørensen, G.	Astrophys. J. <u>181</u> , 567 (1973).	life emiss., rel.
Wolnik, S. J. & Berthel, R. O.	Astrophys. J. <u>179</u> , 665 (1973).	emiss.

Ti III

Warner, B. & Kirkpatrick, R. C.	Mon. Notic. Roy. Astron. Soc. <u>144</u> , 397 (1969).	quant., quant. forb.
	Publications of the Department of Astronomy, University of Texas at Austin, Vol. III, No. 2 (1969).	
Andersen, T., Roberts, J. R., & Sørensen, G.	"Third Conference on Atomic Spectroscopy," No. 4 (University of Reading, Reading, England, 1971).	life
Roberts, J. R., Andersen, T., & Sørensen, G.	Astrophys. J. <u>181</u> , 567 (1973).	life

Ti IV

Roberts, J. R., Andersen, T., & Sørensen, G.	Astrophys. J. <u>181</u> , 567 (1973).	life
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Ti V

Cowan, R. D.	J. Phys. (Paris), Colloq. <u>31</u> , C4-191 (1970).	quant.
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Ti XIII

Crance, M.	At. Data <u>5</u> , 185 (1973).	quant.
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Tl (Thallium)*

Tl I

Andersen, T. & Sørensen, G.	Phys. Rev. A <u>5</u> , 2447 (1972).	life
	"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).	

*See also Section 3.2 for some further references.

Hsieh, J. C. & Baird, J. C.	Phys. Rev. A <u>6</u> , 141 (1972).	life
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Tl II

Andersen, T., Kirkegard Nielsen, A., & Sørensen, G.	Phys. Scr. <u>6</u> , 122 (1972).	life
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Andersen, T. & Sørensen, G.	Phys. Rev. A <u>5</u> , 2447 (1972).	life
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"Proceedings of the 2nd European Conference on Beam-Foil Spectroscopy and Connected Topics," (Lyon, 1971).

Tl III

Andersen, T., Kirkegard Nielsen, A., & Sørensen, G.	Phys. Scr. <u>6</u> , 122 (1972).	life
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Tm (Thulium)*

Tm I

Wallenstein, R.	Z. Phys. <u>251</u> , 57 (1972).	life
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V (Vanadium)*

V I

Fischer, C. F.	J. Quant. Spectrosc. Radiat. Transfer <u>13</u> , 201 (1973).	quant., SCF
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Mie, K. & Richter, J.	Astron. Astrophys. <u>25</u> , 299 (1973).	absorpt.
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Roberts, J. R., Andersen, T., & Sørensen, G.	Astrophys. J. <u>181</u> , 587 (1973).	life, emiss., rel.
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V II

Roberts, J. R., Andersen, T., & Sørensen, G.	Astrophys. J. <u>181</u> , 587 (1973).	life, emiss., rel.
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V III

Roberts, J. R., Andersen, T., & Sørensen, G.	Astrophys. J. <u>181</u> , 587 (1973).	life
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V IV

Warner, B. & Kirkpatrick, R. C.	Mon. Notic. Roy. Astron. Soc. <u>144</u> , 397 (1969).	quant., quant. forb.
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Grande, M.

At. Data 5, 185 (1973).

quant.

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W (Tungsten)*

W I

Kirsanova, H. N.

J. Appl. Spectrosc. (USSR) 10, 444 (1969).

emiss.

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Xe (Xenon)*

Xe I

Malakhov, V. P.

Sov. Phys. J. 8, 128 (1965).

absorpt.

Anderson, D. K.

Phys. Rev. 137, A21 (1965).

life

"Excitation Electronique D'Une Vapeur Atomique-Application
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de la Recherche Scientifique, Paris, 1967).

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"Second Conference on Atomic Spectroscopy," No. 26
(Institut A für Experimentalphysik der Technischen
Universität, Hannover, Germany, 1970).

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Phys. Lett. A 36, 177 (1971).

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Karimov, R. G. & Klinkin, V. M.

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Stedman, D. H. & Setser, D. W.

"Progress in Reaction Kinetics," Vol. 6, Part 4, 193-238
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quant. forb.

Aymar, M.

Physica (Utrecht) 57, 178 (1972).

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Phys. Lett. A 39, 186 (1972).

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Hackmann, J., Michael, H., &
Uhlenbusch, J.Z. Phys. 250, 207 (1972).

emiss.

Husson, X. & Margerie, J.

Opt. Commun. 5, 139 (1972).

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Wieme, W. & Mortier, P.

Physica (Utrecht) 65, 198 (1973).

life

Xe II

Karimov, R. G. & Klinkin, V. M.

Izv. Vyssh. Ucheb. Zaved., Fiz. No. 3, 24 (1971).

life

Levchenko, M. A.

Izv. Vyssh. Ucheb. Zaved., Fiz. No. 10, 147 (1971).

emiss.

Andersen, T., Madsen, O. H.,
& Sørensen, G.Phys. Scr. 6, 125 (1972).

life

Hackmann, J., Michael, H., &
Uhlenbusch, J.Z. Phys. 250, 207 (1972).

emiss.

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Xe III

Andersen, T., Madsen, O. H.,
& Sørensen, G.

Phys. Scr. 6, 125 (1972).

life

* * * * *

Y (Yttrium)*

Y I

Beer, H.

Z. Phys. 239, 351 (1970).

life

Beer, H.

Ann. Phys. (Leipzig) 27, 110 (1971).

life

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Zn (Zinc)*

Zn I

Spitzer, M.

Ann. Phys. (Paris) 5, 707 (1960).

life

Oshervich, A. L., Anisimova,
G. P., Burshtein, M. L.,
Verolainen, Ya. F., Szigeti,
J., & Ledovskaya, E. A.

Opt. Spectrosc. (USSR) 30, 429 (1971).

life

Penkin, N. P. & Redko, T. P.

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Spitzer-Aronson, M., &
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C. R. H. Acad. Sci., Ser. B 272, 520 (1971).

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Method. Phys. Anal. 8, 3 (1972).

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Zn II

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Hyman, H. A.

Chem. Phys. Lett. 10, 242 (1971).

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